

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: P220551

Luminaire Tested: **9003-W1-[RW, RI]-LED4097-F-BK-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220551  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29474)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9003-W1-[RW, RI]-LED4097-F-BK-L2-UNV  
Description: LUMIERE LANTERRA 9003 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 4000K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1291.6 lumens  
Efficiency: N/A  
Efficacy: 64.3 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

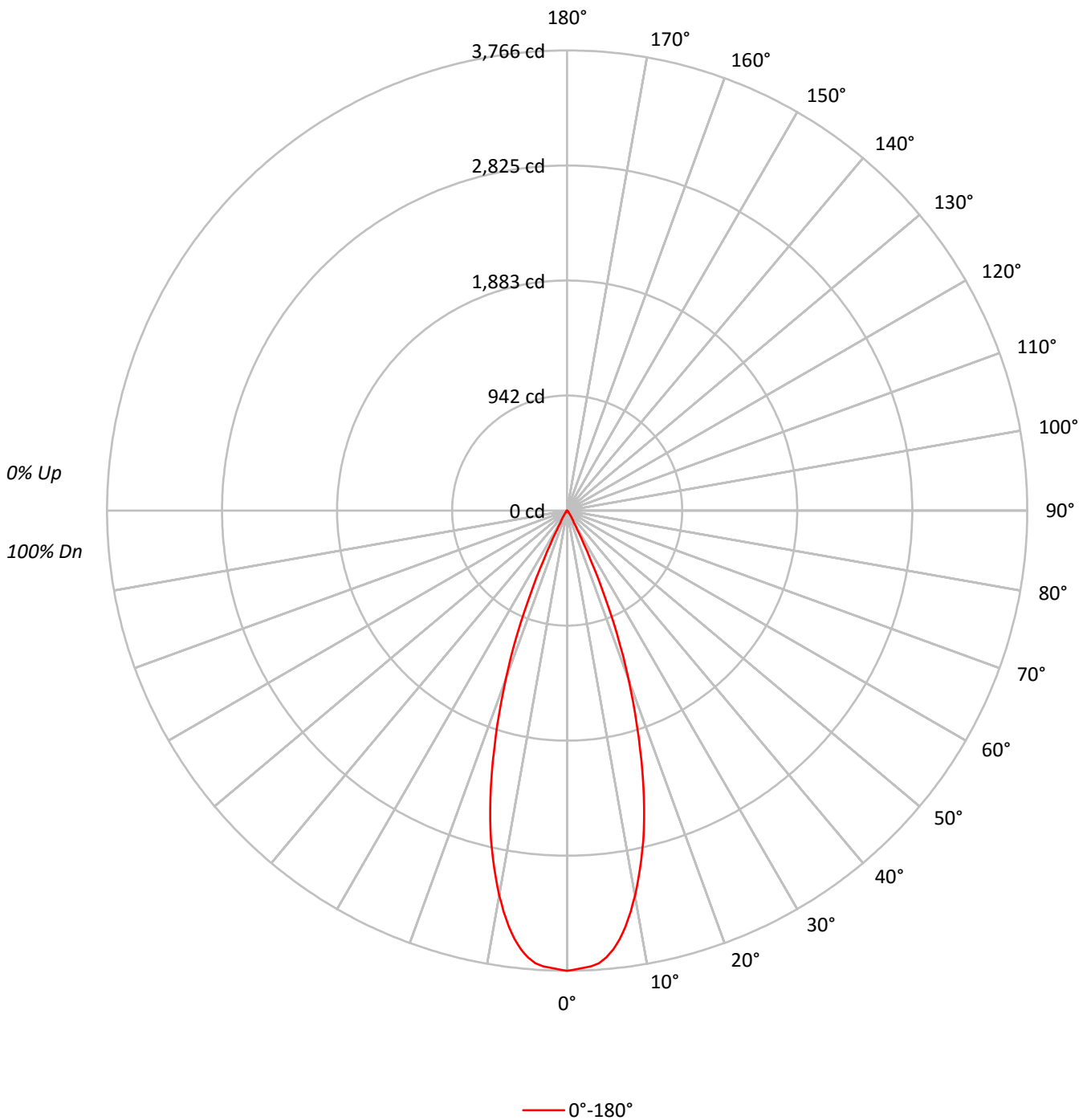
Input Watts (W): 20.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 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   | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 107 | 105 | 104 | 103 | 102 | 101 | 99  | 99  | 98  | 96  |
| 2   | 111 | 107 | 104 | 101 | 109 | 105 | 103 | 100 | 102 | 100 | 98  | 99  | 98  | 96  | 97  | 95  | 94  | 93  |
| 3   | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 95  | 98  | 96  | 93  | 96  | 94  | 92  | 94  | 92  | 90  | 89  |
| 4   | 103 | 98  | 94  | 91  | 102 | 97  | 93  | 90  | 95  | 92  | 89  | 93  | 90  | 88  | 91  | 89  | 87  | 86  |
| 5   | 100 | 94  | 90  | 86  | 99  | 93  | 89  | 86  | 91  | 88  | 85  | 90  | 87  | 85  | 89  | 86  | 84  | 83  |
| 6   | 97  | 90  | 86  | 83  | 96  | 90  | 86  | 83  | 88  | 85  | 82  | 87  | 84  | 82  | 86  | 83  | 81  | 80  |
| 7   | 94  | 87  | 83  | 80  | 93  | 87  | 82  | 79  | 85  | 82  | 79  | 84  | 81  | 79  | 83  | 80  | 78  | 77  |
| 8   | 91  | 84  | 80  | 77  | 90  | 84  | 79  | 77  | 83  | 79  | 76  | 82  | 78  | 76  | 81  | 78  | 76  | 75  |
| 9   | 88  | 81  | 77  | 74  | 87  | 81  | 77  | 74  | 80  | 76  | 74  | 79  | 76  | 73  | 79  | 76  | 73  | 72  |
| 10  | 86  | 79  | 74  | 72  | 85  | 78  | 74  | 71  | 78  | 74  | 71  | 77  | 74  | 71  | 76  | 73  | 71  | 70  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 825877 |
| 5°  | 808076 |
| 10° | 712211 |
| 15° | 550264 |
| 20° | 341746 |
| 25° | 126612 |
| 30° | 26510  |
| 35° | 9985   |
| 40° | 3635   |
| 45° | 2450   |
| 50° | 2149   |
| 55° | 1835   |
| 60° | 1403   |
| 65° | 830    |
| 70° | 513    |
| 75° | 0      |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 335.2  | 26.0      |
| 10°-20°   | 650.4  | 50.4      |
| 20°-30°   | 265.0  | 20.5      |
| 30°-40°   | 28.0   | 2.2       |
| 40°-50°   | 6.5    | 0.5       |
| 50°-60°   | 4.3    | 0.3       |
| 60°-70°   | 1.9    | 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°    | 1250.6 | 96.8      |
| 0°-40°    | 1278.6 | 99.0      |
| 0°-60°    | 1289.4 | 99.8      |
| 0°-90°    | 1291.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1291.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3766 |      |
| 5°  | 3671 | 335  |
| 15° | 2424 | 650  |
| 25° | 523  | 265  |
| 35° | 37   | 28   |
| 45° | 8    | 7    |
| 55° | 5    | 4    |
| 65° | 2    | 2    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 3766.3 |
| 1°    | 3756.8 |
| 2°    | 3745.7 |
| 3°    | 3735.4 |
| 4°    | 3714.8 |
| 5°    | 3671.1 |
| 6°    | 3611.7 |
| 7°    | 3534.0 |
| 8°    | 3434.9 |
| 9°    | 3322.3 |
| 10°   | 3198.6 |
| 11°   | 3063.0 |
| 12°   | 2918.7 |
| 13°   | 2768.0 |
| 14°   | 2603.1 |
| 15°   | 2423.9 |
| 16°   | 2241.5 |
| 17°   | 2039.4 |
| 18°   | 1850.6 |
| 19°   | 1654.0 |
| 20°   | 1464.5 |
| 21°   | 1279.7 |
| 22°   | 1083.9 |
| 23°   | 884.1  |
| 24°   | 694.6  |
| 25°   | 523.3  |
| 26°   | 375.0  |
| 27°   | 255.3  |
| 28°   | 168.9  |
| 29°   | 125.3  |
| 30°   | 104.7  |
| 32.5° | 69.0   |
| 35°   | 37.3   |
| 37.5° | 20.6   |
| 40°   | 12.7   |
| 42.5° | 9.5    |
| 45°   | 7.9    |
| 47.5° | 7.1    |
| 50°   | 6.3    |
| 52.5° | 5.6    |
| 55°   | 4.8    |
| 57.5° | 4.0    |
| 60°   | 3.2    |
| 62.5° | 2.4    |
| 65°   | 1.6    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  |
|-------|-----|
| 67.5° | 1.6 |
| 70°   | 0.8 |
| 72.5° | 0.8 |
| 75°   | 0.0 |
| 77.5° | 0.0 |
| 80°   | 0.0 |
| 82.5° | 0.0 |
| 85°   | 0.0 |
| 87.5° | 0.0 |
| 90°   | 0.0 |

(END OF REPORT)