

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: P220894

Luminaire Tested: **9004-W1-[RW, RI]-LED4080-W-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220894  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29494)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9004-W1-[RW, RI]-LED4080-W-BK-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED 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: 997.8 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.83  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

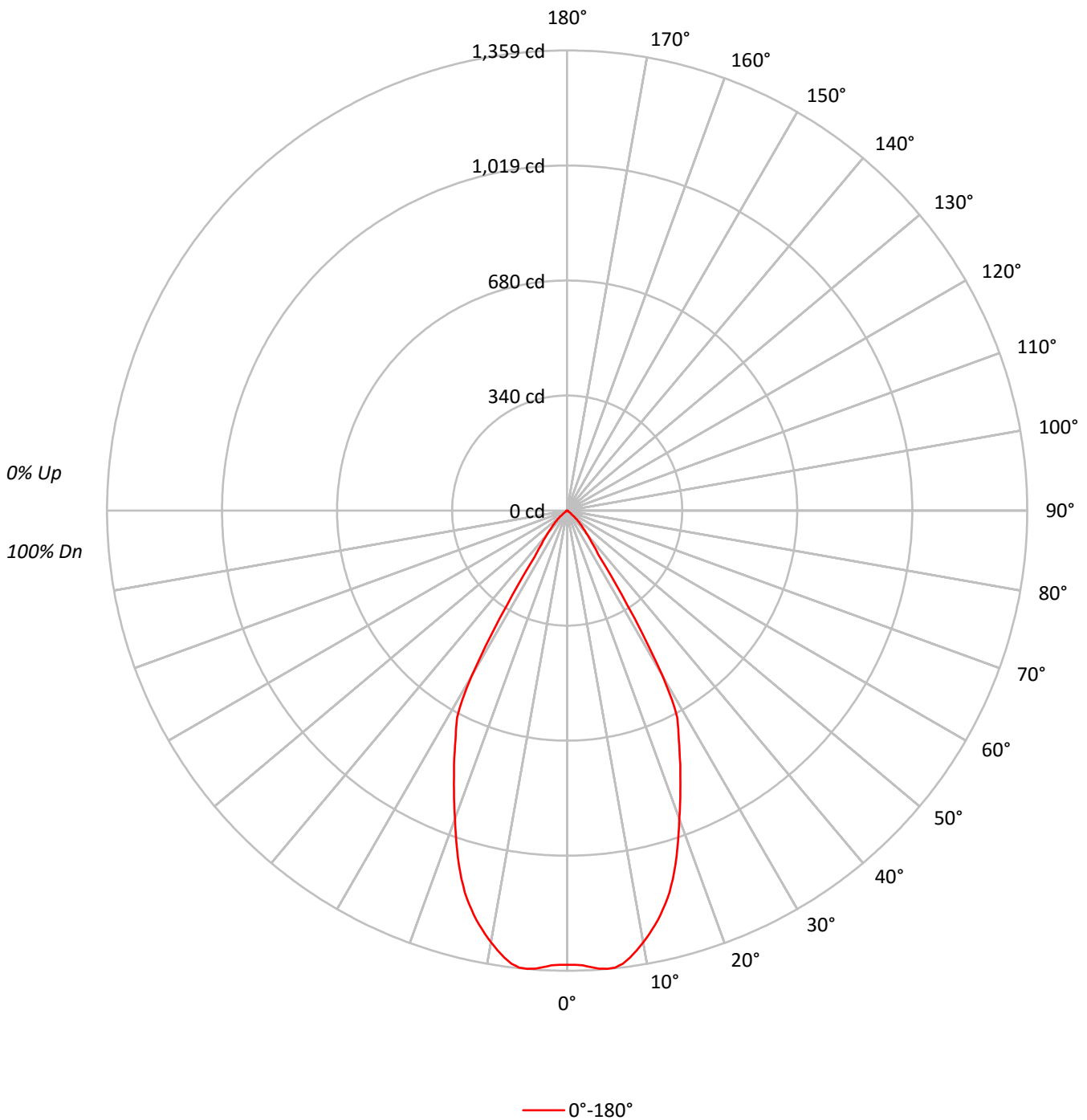
Input Watts (W): 9.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 96  | 94  |
| 2   | 109 | 104 | 100 | 97  | 107 | 102 | 99  | 96  | 99  | 96  | 94  | 96  | 94  | 92  | 94  | 92  | 90  | 89  |
| 3   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 89  | 94  | 90  | 87  | 91  | 88  | 86  | 89  | 87  | 85  | 83  |
| 4   | 99  | 92  | 87  | 83  | 97  | 91  | 86  | 82  | 89  | 85  | 81  | 87  | 83  | 80  | 85  | 82  | 80  | 78  |
| 5   | 94  | 87  | 81  | 77  | 93  | 86  | 81  | 77  | 84  | 80  | 76  | 82  | 79  | 76  | 81  | 78  | 75  | 73  |
| 6   | 90  | 82  | 76  | 72  | 89  | 81  | 76  | 72  | 80  | 75  | 72  | 78  | 74  | 71  | 77  | 73  | 71  | 69  |
| 7   | 86  | 77  | 72  | 68  | 85  | 77  | 71  | 68  | 75  | 71  | 67  | 74  | 70  | 67  | 73  | 69  | 67  | 65  |
| 8   | 82  | 73  | 68  | 64  | 81  | 73  | 67  | 64  | 72  | 67  | 64  | 71  | 66  | 63  | 70  | 66  | 63  | 62  |
| 9   | 79  | 70  | 64  | 60  | 78  | 69  | 64  | 60  | 68  | 63  | 60  | 67  | 63  | 60  | 67  | 63  | 60  | 58  |
| 10  | 75  | 66  | 61  | 57  | 74  | 66  | 61  | 57  | 65  | 60  | 57  | 64  | 60  | 57  | 64  | 60  | 57  | 55  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 165517 |
| 5°  | 168217 |
| 10° | 162159 |
| 15° | 149048 |
| 20° | 127245 |
| 25° | 106904 |
| 30° | 80016  |
| 35° | 25116  |
| 40° | 14878  |
| 45° | 9036   |
| 50° | 3761   |
| 55° | 624    |
| 60° | 419    |
| 65° | 233    |
| 70° | 144    |
| 75° | 191    |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 127.6  | 12.8      |
| 10°-20°   | 321.9  | 32.3      |
| 20°-30°   | 358.5  | 35.9      |
| 30°-40°   | 143.1  | 14.3      |
| 40°-50°   | 40.9   | 4.1       |
| 50°-60°   | 4.5    | 0.5       |
| 60°-70°   | 0.9    | 0.1       |
| 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°    | 808.1  | 81.0      |
| 0°-40°    | 951.2  | 95.3      |
| 0°-60°    | 996.6  | 99.9      |
| 0°-90°    | 997.8  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 997.8  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1342 |      |
| 5°  | 1359 | 128  |
| 15° | 1167 | 322  |
| 25° | 786  | 359  |
| 35° | 167  | 143  |
| 45° | 52   | 41   |
| 55° | 3    | 5    |
| 65° | 1    | 1    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1341.9 |
| 1°    | 1341.5 |
| 2°    | 1344.0 |
| 3°    | 1350.3 |
| 4°    | 1356.1 |
| 5°    | 1358.6 |
| 6°    | 1357.0 |
| 7°    | 1348.2 |
| 8°    | 1333.1 |
| 9°    | 1314.7 |
| 10°   | 1294.7 |
| 11°   | 1272.9 |
| 12°   | 1250.4 |
| 13°   | 1225.3 |
| 14°   | 1197.7 |
| 15°   | 1167.2 |
| 16°   | 1131.6 |
| 17°   | 1093.6 |
| 18°   | 1052.2 |
| 19°   | 1010.0 |
| 20°   | 969.4  |
| 21°   | 930.1  |
| 22°   | 892.5  |
| 23°   | 855.7  |
| 24°   | 821.0  |
| 25°   | 785.5  |
| 26°   | 752.1  |
| 27°   | 723.2  |
| 28°   | 693.1  |
| 29°   | 640.0  |
| 30°   | 561.8  |
| 32.5° | 328.6  |
| 35°   | 166.8  |
| 37.5° | 123.3  |
| 40°   | 92.4   |
| 42.5° | 68.6   |
| 45°   | 51.8   |
| 47.5° | 38.5   |
| 50°   | 19.6   |
| 52.5° | 5.0    |
| 55°   | 2.9    |
| 57.5° | 2.1    |
| 60°   | 1.7    |
| 62.5° | 1.3    |
| 65°   | 0.8    |



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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)