

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: P220756

Luminaire Tested: **9004-W1-[RW, RI]-LED5080-M-WT-L3-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220756  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29488)  
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]-LED5080-M-WT-L3-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, WHITE HOUSING.  
Light Source: (1) 5000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2750.7 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

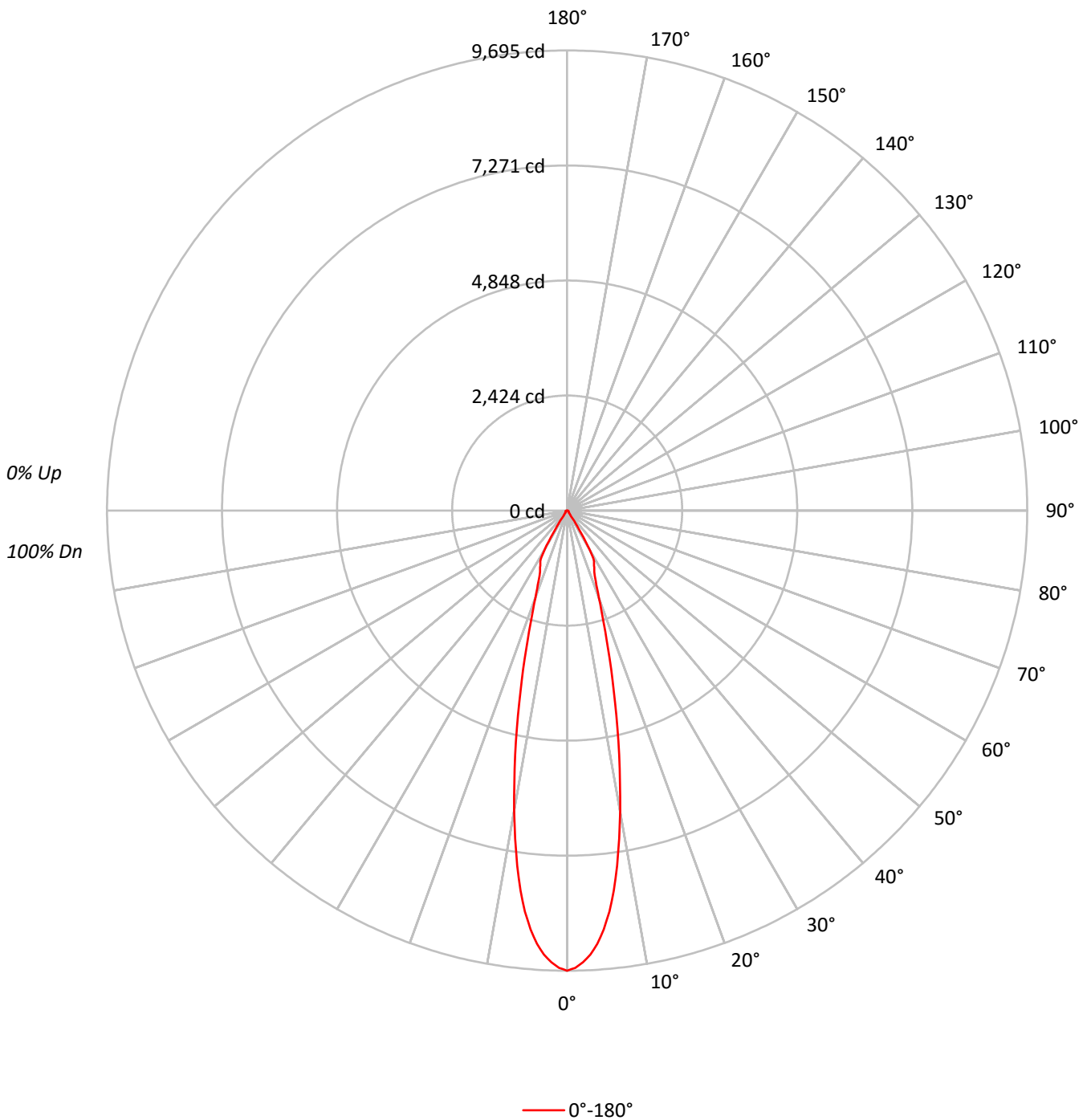
Input Watts (W): 28.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 | 102 | 100 | 99  | 98  | 97  | 96  | 95  |
| 2   | 109 | 105 | 102 | 99  | 107 | 104 | 100 | 98  | 100 | 98  | 95  | 97  | 95  | 93  | 95  | 93  | 92  | 90  |
| 3   | 105 | 100 | 95  | 92  | 103 | 98  | 94  | 91  | 96  | 93  | 90  | 94  | 91  | 89  | 91  | 89  | 87  | 86  |
| 4   | 101 | 95  | 90  | 87  | 100 | 94  | 90  | 86  | 92  | 88  | 85  | 90  | 87  | 84  | 88  | 86  | 83  | 82  |
| 5   | 98  | 91  | 86  | 82  | 96  | 90  | 85  | 82  | 88  | 84  | 81  | 87  | 83  | 81  | 85  | 82  | 80  | 79  |
| 6   | 94  | 87  | 82  | 79  | 93  | 86  | 82  | 78  | 85  | 81  | 78  | 84  | 80  | 77  | 82  | 79  | 77  | 76  |
| 7   | 91  | 83  | 79  | 75  | 90  | 83  | 78  | 75  | 82  | 78  | 75  | 81  | 77  | 74  | 80  | 76  | 74  | 73  |
| 8   | 88  | 80  | 76  | 72  | 87  | 80  | 75  | 72  | 79  | 75  | 72  | 78  | 74  | 72  | 77  | 74  | 71  | 70  |
| 9   | 85  | 77  | 73  | 70  | 84  | 77  | 73  | 69  | 76  | 72  | 69  | 75  | 72  | 69  | 75  | 71  | 69  | 68  |
| 10  | 83  | 75  | 70  | 67  | 82  | 74  | 70  | 67  | 74  | 70  | 67  | 73  | 69  | 67  | 72  | 69  | 67  | 66  |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 1195885 |
| 5°  | 1096658 |
| 10° | 804746  |
| 15° | 471329  |
| 20° | 257168  |
| 25° | 183227  |
| 30° | 135534  |
| 35° | 19560   |
| 40° | 10708   |
| 45° | 7605    |
| 50° | 7772    |
| 55° | 8043    |
| 60° | 8980    |
| 65° | 10011   |
| 70° | 11613   |
| 75° | 14345   |
| 80° | 16977   |
| 85° | 16134   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 766.6  | 27.9      |
| 10°-20°   | 1026.4 | 37.3      |
| 20°-30°   | 633.6  | 23.0      |
| 30°-40°   | 176.6  | 6.4       |
| 40°-50°   | 35.7   | 1.3       |
| 50°-60°   | 34.0   | 1.2       |
| 60°-70°   | 34.3   | 1.2       |
| 70°-80°   | 30.7   | 1.1       |
| 80°-90°   | 12.9   | 0.5       |
| 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°    | 2426.5 | 88.2      |
| 0°-40°    | 2603.1 | 94.6      |
| 0°-60°    | 2672.8 | 97.2      |
| 0°-90°    | 2750.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2750.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 9695 |      |
| 5°  | 8857 | 767  |
| 15° | 3691 | 1026 |
| 25° | 1346 | 634  |
| 35° | 130  | 177  |
| 45° | 44   | 36   |
| 55° | 37   | 34   |
| 65° | 34   | 34   |
| 75° | 30   | 31   |
| 85° | 11   | 13   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 9695.4 |
| 1°    | 9635.2 |
| 2°    | 9524.0 |
| 3°    | 9366.1 |
| 4°    | 9149.0 |
| 5°    | 8857.1 |
| 6°    | 8495.6 |
| 7°    | 8065.5 |
| 8°    | 7552.3 |
| 9°    | 7000.7 |
| 10°   | 6425.2 |
| 11°   | 5839.3 |
| 12°   | 5260.6 |
| 13°   | 4696.6 |
| 14°   | 4173.0 |
| 15°   | 3691.0 |
| 16°   | 3247.4 |
| 17°   | 2849.5 |
| 18°   | 2500.5 |
| 19°   | 2202.3 |
| 20°   | 1959.2 |
| 21°   | 1758.7 |
| 22°   | 1608.1 |
| 23°   | 1493.8 |
| 24°   | 1408.7 |
| 25°   | 1346.3 |
| 26°   | 1295.4 |
| 27°   | 1250.8 |
| 28°   | 1208.2 |
| 29°   | 1112.6 |
| 30°   | 951.6  |
| 32.5° | 461.2  |
| 35°   | 129.9  |
| 37.5° | 89.3   |
| 40°   | 66.5   |
| 42.5° | 46.7   |
| 45°   | 43.6   |
| 47.5° | 41.6   |
| 50°   | 40.5   |
| 52.5° | 38.4   |
| 55°   | 37.4   |
| 57.5° | 37.4   |
| 60°   | 36.4   |
| 62.5° | 36.4   |
| 65°   | 34.3   |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°   |
|-------|------|
| 67.5° | 33.2 |
| 70°   | 32.2 |
| 72.5° | 31.2 |
| 75°   | 30.1 |
| 77.5° | 27.0 |
| 80°   | 23.9 |
| 82.5° | 18.7 |
| 85°   | 11.4 |
| 87.5° | 5.2  |
| 90°   | 0.0  |

(END OF REPORT)