

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: P220348

Luminaire Tested: **9002-W1-[RW, RI]-LED5080-M-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220348  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29414)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9002-W1-[RW, RI]-LED5080-M-BK-L1-UNV  
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, RECESSED LENS, MEDIUM FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 5000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1044.0 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.37  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

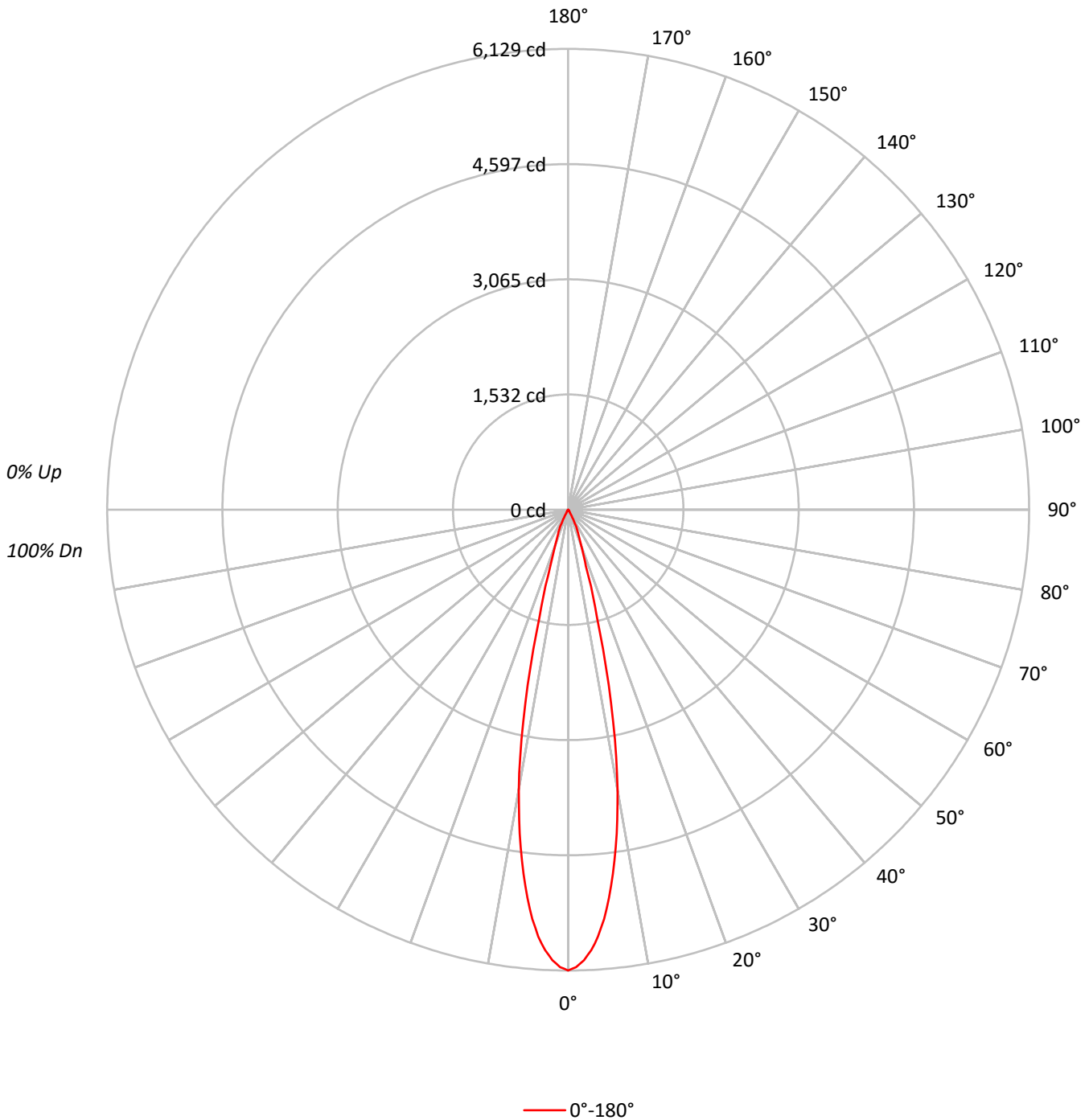
Input Watts (W): 10  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 115 | 113 | 112 | 110 | 113 | 111 | 110 | 108 | 107 | 106 | 105 | 104 | 103 | 102 | 100 | 100 | 99  | 97  |
| 2   | 112 | 109 | 106 | 104 | 110 | 107 | 105 | 103 | 104 | 102 | 100 | 101 | 100 | 98  | 99  | 97  | 96  | 95  |
| 3   | 109 | 105 | 101 | 99  | 107 | 103 | 100 | 98  | 101 | 99  | 96  | 99  | 97  | 95  | 97  | 95  | 94  | 92  |
| 4   | 106 | 101 | 98  | 95  | 105 | 100 | 97  | 94  | 98  | 95  | 93  | 96  | 94  | 92  | 95  | 93  | 91  | 90  |
| 5   | 103 | 98  | 94  | 92  | 102 | 97  | 94  | 91  | 96  | 93  | 90  | 94  | 92  | 90  | 93  | 91  | 89  | 88  |
| 6   | 101 | 95  | 91  | 89  | 100 | 95  | 91  | 89  | 93  | 90  | 88  | 92  | 89  | 87  | 91  | 89  | 87  | 86  |
| 7   | 98  | 93  | 89  | 86  | 97  | 92  | 89  | 86  | 91  | 88  | 86  | 90  | 87  | 85  | 89  | 87  | 85  | 84  |
| 8   | 96  | 90  | 87  | 84  | 95  | 90  | 86  | 84  | 89  | 86  | 84  | 88  | 85  | 83  | 87  | 85  | 83  | 82  |
| 9   | 94  | 88  | 85  | 82  | 93  | 88  | 84  | 82  | 87  | 84  | 82  | 86  | 84  | 82  | 86  | 83  | 81  | 81  |
| 10  | 92  | 86  | 83  | 80  | 91  | 86  | 82  | 80  | 85  | 82  | 80  | 85  | 82  | 80  | 84  | 82  | 80  | 79  |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 3023923 |
| 5°  | 2706173 |
| 10° | 1895198 |
| 15° | 754479  |
| 20° | 257954  |
| 25° | 142030  |
| 30° | 30479   |
| 35° | 13130   |
| 40° | 7020    |
| 45° | 3070    |
| 50° | 1689    |
| 55° | 946     |
| 60° | 1085    |
| 65° | 0       |
| 70° | 0       |
| 75° | 0       |
| 80° | 0       |
| 85° | 0       |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 466.8  | 44.7      |
| 10°-20°   | 446.6  | 42.8      |
| 20°-30°   | 109.9  | 10.5      |
| 30°-40°   | 15.4   | 1.5       |
| 40°-50°   | 4.1    | 0.4       |
| 50°-60°   | 1.1    | 0.1       |
| 60°-70°   | 0.1    | 0.0       |
| 70°-80°   | 0.0    | 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°    | 1023.2 | 98.0      |
| 0°-40°    | 1038.6 | 99.5      |
| 0°-60°    | 1043.8 | 100.0     |
| 0°-90°    | 1044.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1044.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 6129 |      |
| 5°  | 5464 | 467  |
| 15° | 1477 | 447  |
| 25° | 261  | 110  |
| 35° | 22   | 15   |
| 45° | 4    | 4    |
| 55° | 1    | 1    |
| 65° | 0    | 0    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 6129.0 |
| 1°    | 6084.2 |
| 2°    | 5994.7 |
| 3°    | 5867.0 |
| 4°    | 5692.3 |
| 5°    | 5464.1 |
| 6°    | 5190.1 |
| 7°    | 4883.3 |
| 8°    | 4537.2 |
| 9°    | 4174.8 |
| 10°   | 3782.9 |
| 11°   | 3352.7 |
| 12°   | 2878.9 |
| 13°   | 2393.1 |
| 14°   | 1910.5 |
| 15°   | 1477.1 |
| 17.5° | 785.0  |
| 20°   | 491.3  |
| 22.5° | 354.8  |
| 25°   | 260.9  |
| 27.5° | 114.6  |
| 30°   | 53.5   |
| 32.5° | 32.8   |
| 35°   | 21.8   |
| 37.5° | 14.2   |
| 40°   | 10.9   |
| 42.5° | 7.6    |
| 45°   | 4.4    |
| 47.5° | 3.3    |
| 50°   | 2.2    |
| 52.5° | 1.1    |
| 55°   | 1.1    |
| 57.5° | 1.1    |
| 60°   | 1.1    |
| 62.5° | 0.0    |
| 65°   | 0.0    |
| 67.5° | 0.0    |
| 70°   | 0.0    |
| 72.5° | 0.0    |
| 75°   | 0.0    |
| 77.5° | 0.0    |
| 80°   | 0.0    |
| 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)