

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: P222153

Luminaire Tested: **9004-W2-FL-LED5080-F-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P222153  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29498)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9004-W2-FL-LED5080-F-BK-L1-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 5000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

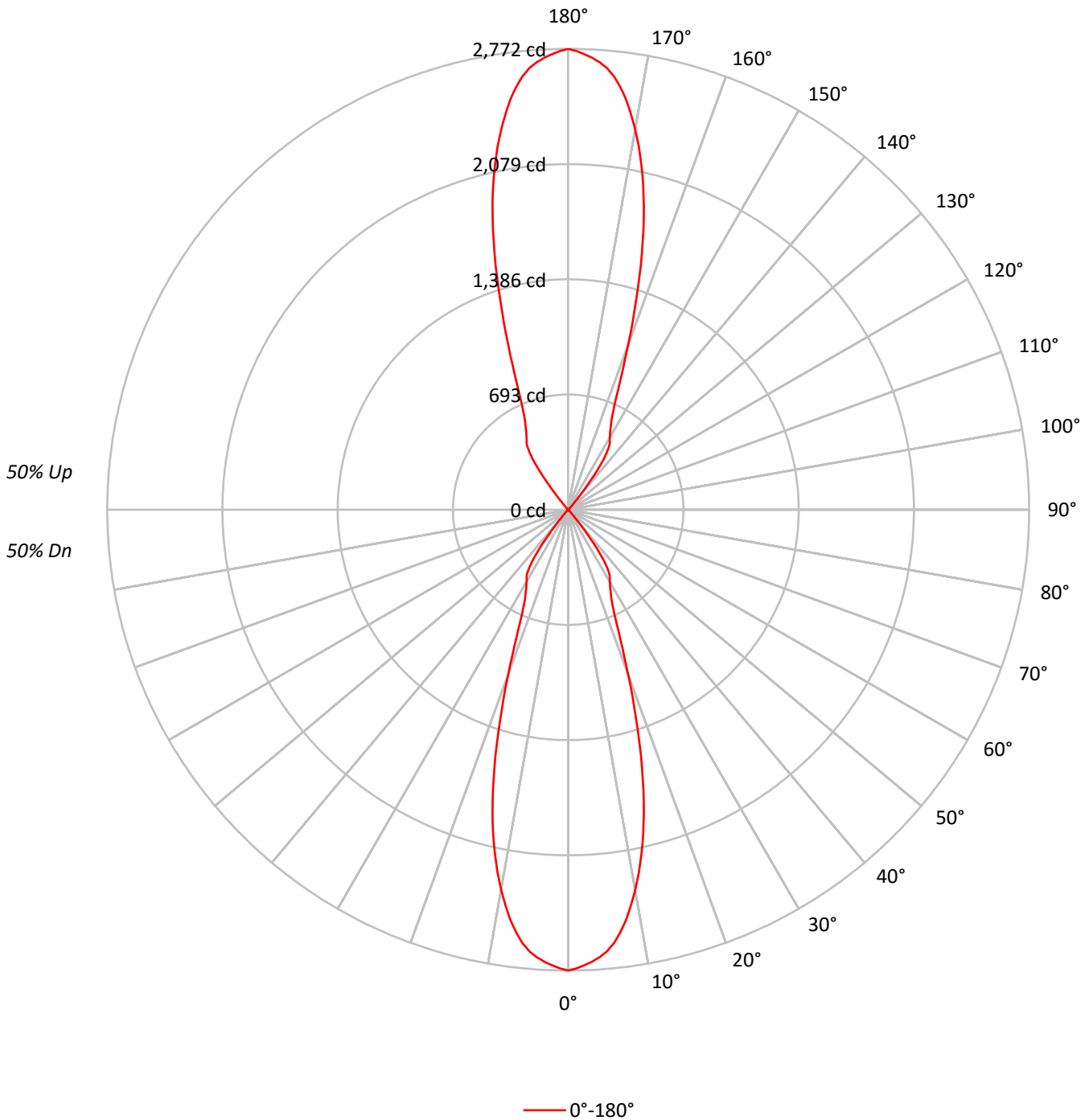
Lumens per Lamp: N/A  
Luminaire Lumens: 2493.4 lumens  
Efficiency: N/A  
Efficacy: 126.6 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.56  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 19.7  
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   | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 |  | 69 | 69 | 69 |  | 56 | 56 | 56 | 50 |
| 1   | 100 | 97  | 94  | 92  | 93 | 90 | 88 | 86 | 77 | 75 | 74 |  | 65 | 64 | 63 |  | 54 | 53 | 53 | 48 |
| 2   | 94  | 89  | 84  | 80  | 87 | 83 | 79 | 76 | 71 | 69 | 66 |  | 61 | 59 | 58 |  | 51 | 50 | 49 | 45 |
| 3   | 88  | 81  | 76  | 71  | 82 | 76 | 71 | 68 | 66 | 63 | 60 |  | 57 | 55 | 53 |  | 49 | 48 | 46 | 43 |
| 4   | 83  | 75  | 69  | 64  | 77 | 70 | 65 | 61 | 62 | 58 | 55 |  | 54 | 51 | 49 |  | 47 | 45 | 44 | 41 |
| 5   | 78  | 69  | 63  | 58  | 73 | 65 | 60 | 56 | 58 | 54 | 51 |  | 51 | 48 | 46 |  | 45 | 43 | 41 | 38 |
| 6   | 74  | 64  | 58  | 54  | 69 | 61 | 55 | 52 | 54 | 50 | 47 |  | 48 | 45 | 43 |  | 43 | 41 | 39 | 37 |
| 7   | 70  | 60  | 54  | 50  | 65 | 57 | 52 | 48 | 51 | 47 | 44 |  | 46 | 43 | 41 |  | 41 | 39 | 37 | 35 |
| 8   | 66  | 56  | 50  | 46  | 62 | 54 | 48 | 44 | 48 | 44 | 41 |  | 44 | 41 | 38 |  | 39 | 37 | 35 | 33 |
| 9   | 63  | 53  | 47  | 43  | 59 | 50 | 45 | 42 | 46 | 42 | 39 |  | 41 | 38 | 36 |  | 37 | 35 | 34 | 32 |
| 10  | 60  | 50  | 44  | 40  | 56 | 48 | 43 | 39 | 44 | 39 | 37 |  | 40 | 37 | 34 |  | 36 | 34 | 32 | 30 |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 341914 |
| 5°  | 330207 |
| 10° | 290727 |
| 15° | 223316 |
| 20° | 138114 |
| 25° | 85578  |
| 30° | 71313  |
| 35° | 57084  |
| 40° | 12447  |
| 45° | 2651   |
| 50° | 499    |
| 55° | 280    |
| 60° | 222    |
| 65° | 117    |
| 70° | 144    |
| 75° | 191    |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 243.6  | 9.8       |
| 10°-20°   | 469.0  | 18.8      |
| 20°-30°   | 308.0  | 12.4      |
| 30°-40°   | 207.7  | 8.3       |
| 40°-50°   | 16.4   | 0.7       |
| 50°-60°   | 1.2    | 0.0       |
| 60°-70°   | 0.6    | 0.0       |
| 70°-80°   | 0.4    | 0.0       |
| 80°-90°   | 0.0    | 0.0       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.4    | 0.0       |
| 110°-120° | 0.6    | 0.0       |
| 120°-130° | 1.2    | 0.0       |
| 130°-140° | 16.4   | 0.7       |
| 140°-150° | 207.7  | 8.3       |
| 150°-160° | 308.0  | 12.4      |
| 160°-170° | 469.0  | 18.8      |
| 170°-180° | 243.6  | 9.8       |
| 0°-30°    | 1020.5 | 40.9      |
| 0°-40°    | 1228.2 | 49.3      |
| 0°-60°    | 1245.8 | 50.0      |
| 0°-90°    | 1246.7 | 50.0      |
| 90°-120°  | 0.9    | 0.0       |
| 90°-150°  | 226.2  | 9.1       |
| 90°-180°  | 1247.0 | 50.0      |
| 0°-180°   | 2493.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 2772 |      |
| 5°   | 2667 | 244  |
| 15°  | 1749 | 469  |
| 25°  | 629  | 308  |
| 35°  | 379  | 208  |
| 45°  | 15   | 16   |
| 55°  | 1    | 1    |
| 65°  | 0    | 1    |
| 75°  | 0    | 0    |
| 85°  | 0    | 0    |
| 90°  | 0    | 0    |
| 95°  | 0    | 0    |
| 105° | 0    | 0    |
| 115° | 0    | 1    |
| 125° | 1    | 1    |
| 135° | 15   | 16   |
| 145° | 379  | 208  |
| 155° | 629  | 308  |
| 165° | 1749 | 469  |
| 175° | 2667 | 244  |
| 180° | 2772 |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 2772.0 |
| 1°    | 2759.8 |
| 2°    | 2742.0 |
| 3°    | 2722.5 |
| 4°    | 2699.4 |
| 5°    | 2666.9 |
| 6°    | 2622.1 |
| 7°    | 2564.0 |
| 8°    | 2492.3 |
| 9°    | 2409.4 |
| 10°   | 2321.2 |
| 11°   | 2224.4 |
| 12°   | 2118.8 |
| 13°   | 2003.7 |
| 14°   | 1881.3 |
| 15°   | 1748.8 |
| 16°   | 1609.4 |
| 17°   | 1465.2 |
| 18°   | 1321.1 |
| 19°   | 1185.6 |
| 20°   | 1052.2 |
| 21°   | 936.7  |
| 22°   | 832.9  |
| 23°   | 747.0  |
| 24°   | 680.5  |
| 25°   | 628.8  |
| 26°   | 591.5  |
| 27°   | 562.8  |
| 28°   | 538.5  |
| 29°   | 518.5  |
| 30°   | 500.7  |
| 32.5° | 463.4  |
| 35°   | 379.1  |
| 37.5° | 225.4  |
| 40°   | 77.3   |
| 42.5° | 23.0   |
| 45°   | 15.2   |
| 47.5° | 9.6    |
| 50°   | 2.6    |
| 52.5° | 1.3    |
| 55°   | 1.3    |
| 57.5° | 0.9    |
| 60°   | 0.9    |
| 62.5° | 0.9    |
| 65°   | 0.4    |



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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    |
| 92.5°  | 0.0    |
| 95°    | 0.0    |
| 97.5°  | 0.0    |
| 100°   | 0.0    |
| 102.5° | 0.4    |
| 105°   | 0.4    |
| 107.5° | 0.4    |
| 110°   | 0.4    |
| 112.5° | 0.4    |
| 115°   | 0.4    |
| 117.5° | 0.9    |
| 120°   | 0.9    |
| 122.5° | 0.9    |
| 125°   | 1.3    |
| 127.5° | 1.3    |
| 130°   | 2.6    |
| 132.5° | 9.6    |
| 135°   | 15.2   |
| 137.5° | 23.0   |
| 140°   | 77.3   |
| 142.5° | 225.4  |
| 145°   | 379.1  |
| 147.5° | 463.4  |
| 150°   | 500.7  |
| 151°   | 518.5  |
| 152°   | 538.5  |
| 153°   | 562.8  |
| 154°   | 591.5  |
| 155°   | 628.8  |
| 156°   | 680.5  |
| 157°   | 747.0  |
| 158°   | 832.9  |
| 159°   | 936.7  |
| 160°   | 1052.2 |
| 161°   | 1185.6 |



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**CANDELA DISTRIBUTION (continued):**

|      | 0°     |
|------|--------|
| 162° | 1321.1 |
| 163° | 1465.2 |
| 164° | 1609.4 |
| 165° | 1748.8 |
| 166° | 1881.3 |
| 167° | 2003.7 |
| 168° | 2118.8 |
| 169° | 2224.4 |
| 170° | 2321.2 |
| 171° | 2409.4 |
| 172° | 2492.3 |
| 173° | 2564.0 |
| 174° | 2622.1 |
| 175° | 2666.9 |
| 176° | 2699.4 |
| 177° | 2722.5 |
| 178° | 2742.0 |
| 179° | 2759.8 |
| 180° | 2772.0 |

(END OF REPORT)