

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: P221401

Luminaire Tested: **9003-W2-[RW, RI]-LED2797-F-BK-L1-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221401  
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-W2-[RW, RI]-LED2797-F-BK-L1-UNV  
Description: LUMIERE LANTERRA 9003 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 2700K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1235.4 lumens  
Efficiency: N/A  
Efficacy: 63.0 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.56  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: General Diffuse

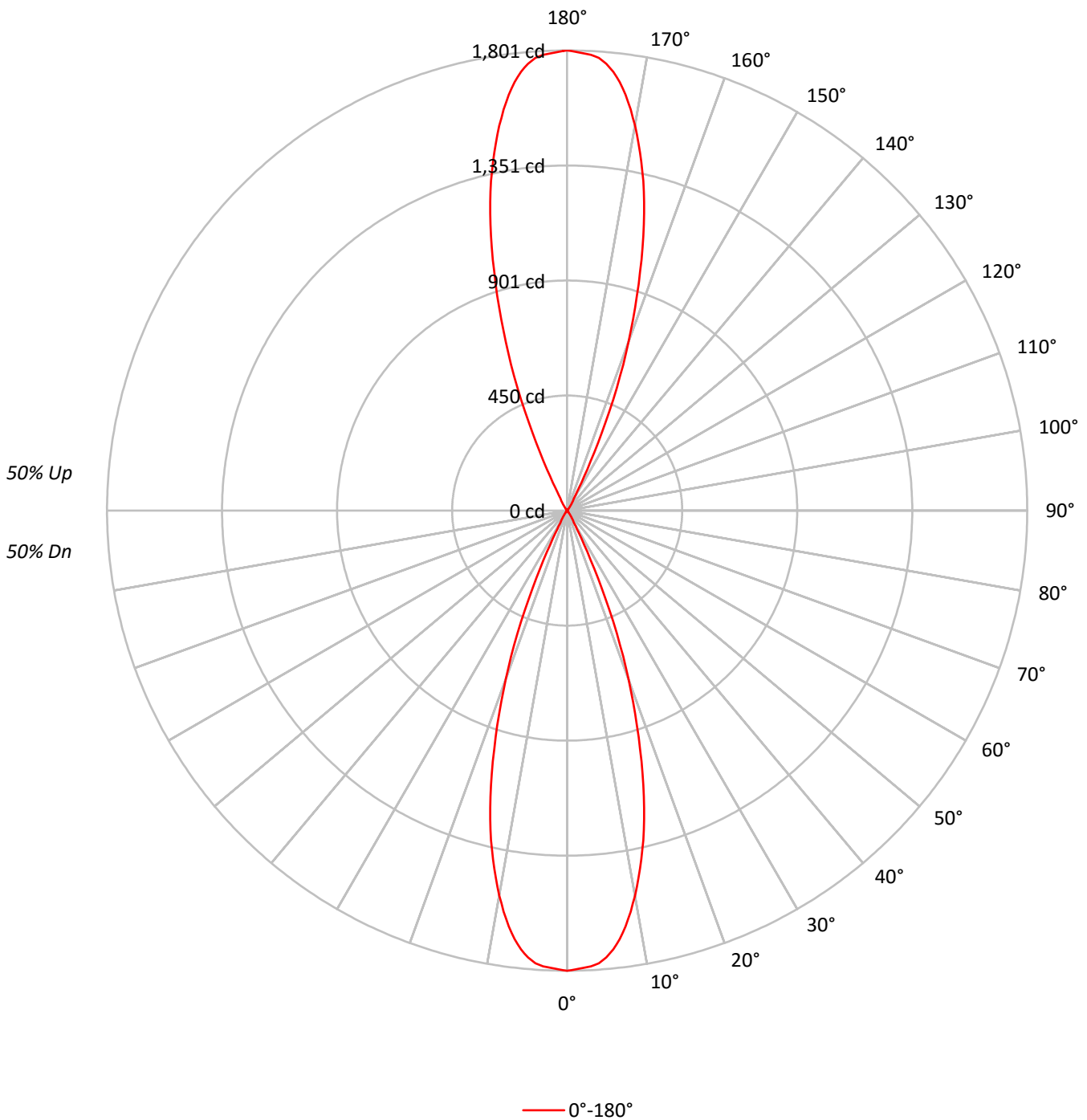
Input Watts (W): 19.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 101 | 98  | 95  | 92  | 93 | 91 | 88 | 86 | 77 | 76 | 74 |  | 65 | 64 | 64 |  | 54 | 54 | 53 | 48 |
| 2   | 95  | 90  | 85  | 82  | 88 | 84 | 80 | 77 | 72 | 70 | 68 |  | 62 | 60 | 59 |  | 52 | 51 | 51 | 46 |
| 3   | 89  | 83  | 77  | 73  | 83 | 78 | 73 | 70 | 68 | 65 | 62 |  | 59 | 57 | 55 |  | 50 | 49 | 48 | 45 |
| 4   | 84  | 77  | 71  | 67  | 79 | 72 | 67 | 64 | 64 | 60 | 58 |  | 56 | 54 | 52 |  | 49 | 47 | 46 | 43 |
| 5   | 80  | 72  | 66  | 61  | 75 | 68 | 63 | 59 | 60 | 57 | 54 |  | 53 | 51 | 49 |  | 47 | 45 | 44 | 41 |
| 6   | 76  | 67  | 61  | 57  | 71 | 64 | 59 | 55 | 57 | 53 | 51 |  | 51 | 48 | 46 |  | 45 | 44 | 42 | 40 |
| 7   | 72  | 63  | 57  | 53  | 68 | 60 | 55 | 51 | 54 | 51 | 48 |  | 49 | 46 | 44 |  | 44 | 42 | 41 | 39 |
| 8   | 69  | 60  | 54  | 50  | 65 | 57 | 52 | 48 | 52 | 48 | 45 |  | 47 | 44 | 42 |  | 42 | 41 | 39 | 37 |
| 9   | 66  | 57  | 51  | 47  | 62 | 54 | 49 | 46 | 50 | 46 | 43 |  | 45 | 42 | 41 |  | 41 | 39 | 38 | 36 |
| 10  | 63  | 54  | 48  | 45  | 60 | 52 | 47 | 44 | 47 | 44 | 41 |  | 44 | 41 | 39 |  | 40 | 38 | 37 | 35 |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 394946 |
| 5°  | 386440 |
| 10° | 340586 |
| 15° | 263157 |
| 20° | 163441 |
| 25° | 60560  |
| 30° | 12685  |
| 35° | 4765   |
| 40° | 1746   |
| 45° | 1178   |
| 50° | 1023   |
| 55° | 879    |
| 60° | 658    |
| 65° | 415    |
| 70° | 256    |
| 75° | 0      |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 160.3  | 13.0      |
| 10°-20°   | 311.1  | 25.2      |
| 20°-30°   | 126.7  | 10.3      |
| 30°-40°   | 13.4   | 1.1       |
| 40°-50°   | 3.1    | 0.3       |
| 50°-60°   | 2.0    | 0.2       |
| 60°-70°   | 0.9    | 0.1       |
| 70°-80°   | 0.2    | 0.0       |
| 80°-90°   | 0.0    | 0.0       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.3    | 0.0       |
| 110°-120° | 0.9    | 0.1       |
| 120°-130° | 2.0    | 0.2       |
| 130°-140° | 3.1    | 0.3       |
| 140°-150° | 13.4   | 1.1       |
| 150°-160° | 126.7  | 10.3      |
| 160°-170° | 311.1  | 25.2      |
| 170°-180° | 160.3  | 13.0      |
| 0°-30°    | 598.1  | 48.4      |
| 0°-40°    | 611.5  | 49.5      |
| 0°-60°    | 616.7  | 49.9      |
| 0°-90°    | 617.7  | 50.0      |
| 90°-120°  | 1.2    | 0.1       |
| 90°-150°  | 19.7   | 1.6       |
| 90°-180°  | 618.0  | 50.0      |
| 0°-180°   | 1235.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 1801 |      |
| 5°   | 1756 | 160  |
| 15°  | 1159 | 311  |
| 25°  | 250  | 127  |
| 35°  | 18   | 13   |
| 45°  | 4    | 3    |
| 55°  | 2    | 2    |
| 65°  | 1    | 1    |
| 75°  | 0    | 0    |
| 85°  | 0    | 0    |
| 90°  | 0    | 0    |
| 95°  | 0    | 0    |
| 105° | 0    | 0    |
| 115° | 1    | 1    |
| 125° | 2    | 2    |
| 135° | 4    | 3    |
| 145° | 18   | 13   |
| 155° | 250  | 127  |
| 165° | 1159 | 311  |
| 175° | 1756 | 160  |
| 180° | 1801 |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1801.1 |
| 1°    | 1796.6 |
| 2°    | 1791.3 |
| 3°    | 1786.3 |
| 4°    | 1776.5 |
| 5°    | 1755.6 |
| 6°    | 1727.2 |
| 7°    | 1690.0 |
| 8°    | 1642.6 |
| 9°    | 1588.8 |
| 10°   | 1529.6 |
| 11°   | 1464.8 |
| 12°   | 1395.8 |
| 13°   | 1323.7 |
| 14°   | 1244.9 |
| 15°   | 1159.2 |
| 16°   | 1072.0 |
| 17°   | 975.3  |
| 18°   | 885.0  |
| 19°   | 791.0  |
| 20°   | 700.4  |
| 21°   | 612.0  |
| 22°   | 518.3  |
| 23°   | 422.8  |
| 24°   | 332.2  |
| 25°   | 250.3  |
| 26°   | 179.4  |
| 27°   | 122.1  |
| 28°   | 80.8   |
| 29°   | 59.9   |
| 30°   | 50.1   |
| 32.5° | 33.0   |
| 35°   | 17.8   |
| 37.5° | 9.9    |
| 40°   | 6.1    |
| 42.5° | 4.6    |
| 45°   | 3.8    |
| 47.5° | 3.4    |
| 50°   | 3.0    |
| 52.5° | 2.7    |
| 55°   | 2.3    |
| 57.5° | 1.9    |
| 60°   | 1.5    |
| 62.5° | 1.1    |
| 65°   | 0.8    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    |
|--------|-------|
| 67.5°  | 0.8   |
| 70°    | 0.4   |
| 72.5°  | 0.4   |
| 75°    | 0.0   |
| 77.5°  | 0.0   |
| 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° | 0.0   |
| 105°   | 0.0   |
| 107.5° | 0.4   |
| 110°   | 0.4   |
| 112.5° | 0.8   |
| 115°   | 0.8   |
| 117.5° | 1.1   |
| 120°   | 1.5   |
| 122.5° | 1.9   |
| 125°   | 2.3   |
| 127.5° | 2.7   |
| 130°   | 3.0   |
| 132.5° | 3.4   |
| 135°   | 3.8   |
| 137.5° | 4.6   |
| 140°   | 6.1   |
| 142.5° | 9.9   |
| 145°   | 17.8  |
| 147.5° | 33.0  |
| 150°   | 50.1  |
| 151°   | 59.9  |
| 152°   | 80.8  |
| 153°   | 122.1 |
| 154°   | 179.4 |
| 155°   | 250.3 |
| 156°   | 332.2 |
| 157°   | 422.8 |
| 158°   | 518.3 |
| 159°   | 612.0 |
| 160°   | 700.4 |
| 161°   | 791.0 |



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**CANDELA DISTRIBUTION (continued):**

|      | 0°     |
|------|--------|
| 162° | 885.0  |
| 163° | 975.3  |
| 164° | 1072.0 |
| 165° | 1159.2 |
| 166° | 1244.9 |
| 167° | 1323.7 |
| 168° | 1395.8 |
| 169° | 1464.8 |
| 170° | 1529.6 |
| 171° | 1588.8 |
| 172° | 1642.6 |
| 173° | 1690.0 |
| 174° | 1727.2 |
| 175° | 1755.6 |
| 176° | 1776.5 |
| 177° | 1786.3 |
| 178° | 1791.3 |
| 179° | 1796.6 |
| 180° | 1801.1 |

(END OF REPORT)