

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: P221646

Luminaire Tested: **9003-W2-FL-LED3597-W-BK-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221646  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29479)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9003-W2-FL-LED3597-W-BK-L2-UNV  
Description: LUMIERE LANTERRA 9003 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.  
Light Source: (1) 3500K CCT, 97 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2609.4 lumens  
Efficiency: N/A  
Efficacy: 64.9 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.76  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: General Diffuse

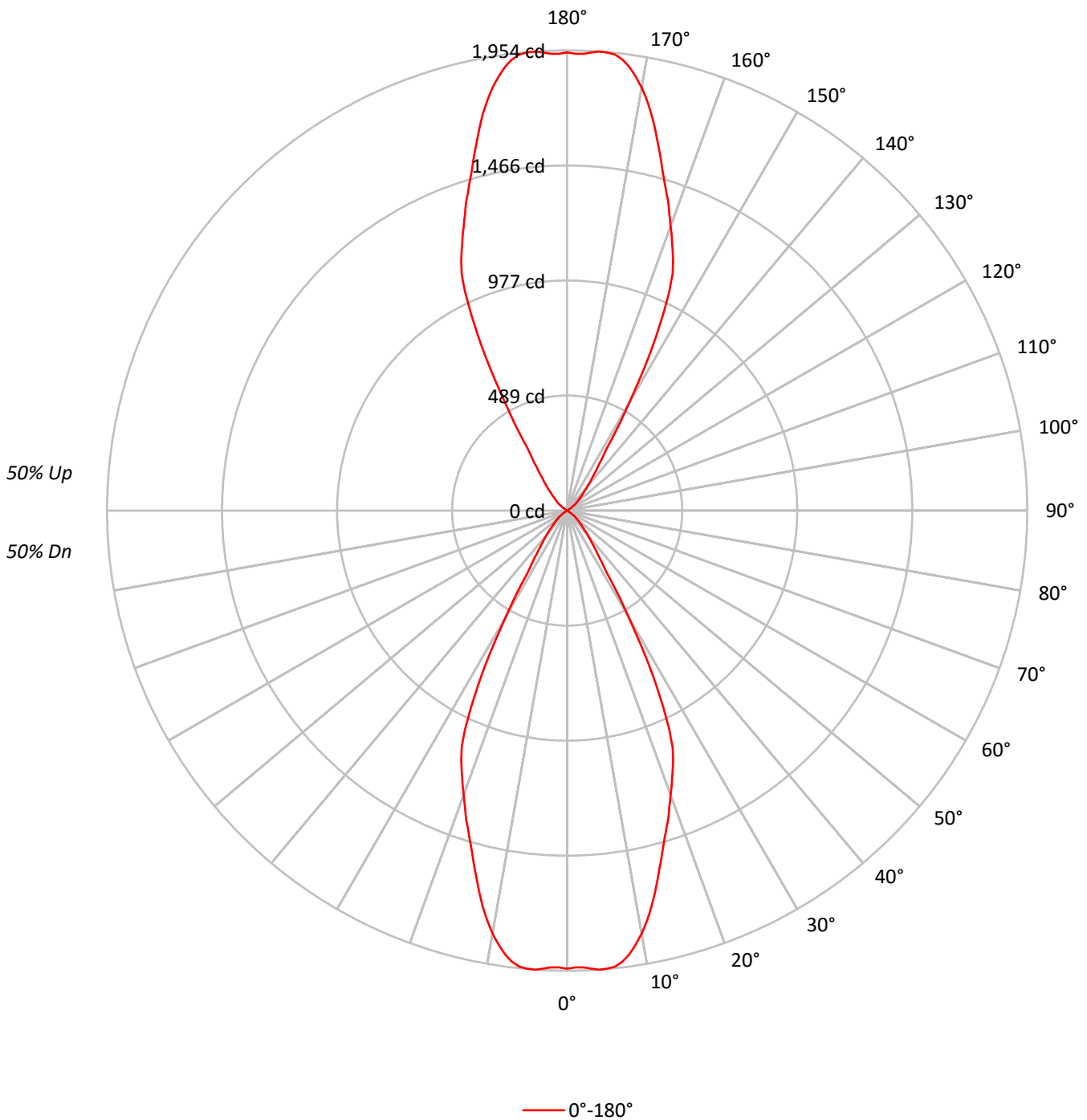
Input Watts (W): 40.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P221646

CATALOG NUMBER: 9003-W2-FL-LED3597-W-BK-L2-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P221646

CATALOG NUMBER: 9003-W2-FL-LED3597-W-BK-L2-UNV

**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  | 91  | 93 | 90 | 87 | 85 | 77 | 75 | 73 |  | 65 | 63 | 62 |  | 53 | 53 | 52 | 47 |
| 2   | 94  | 88  | 83  | 79  | 87 | 82 | 78 | 75 | 71 | 68 | 66 |  | 60 | 58 | 57 |  | 51 | 49 | 49 | 44 |
| 3   | 88  | 80  | 75  | 70  | 81 | 75 | 70 | 66 | 65 | 62 | 59 |  | 56 | 54 | 52 |  | 48 | 46 | 45 | 41 |
| 4   | 82  | 74  | 67  | 63  | 76 | 69 | 64 | 60 | 61 | 57 | 54 |  | 53 | 50 | 48 |  | 45 | 44 | 42 | 39 |
| 5   | 77  | 68  | 61  | 57  | 72 | 64 | 58 | 54 | 56 | 52 | 49 |  | 50 | 47 | 44 |  | 43 | 41 | 40 | 37 |
| 6   | 72  | 63  | 56  | 52  | 68 | 59 | 54 | 49 | 53 | 48 | 45 |  | 47 | 43 | 41 |  | 41 | 39 | 37 | 35 |
| 7   | 68  | 58  | 52  | 47  | 64 | 55 | 50 | 46 | 49 | 45 | 42 |  | 44 | 41 | 38 |  | 39 | 37 | 35 | 33 |
| 8   | 64  | 54  | 48  | 44  | 60 | 52 | 46 | 42 | 46 | 42 | 39 |  | 42 | 38 | 36 |  | 37 | 35 | 33 | 31 |
| 9   | 61  | 51  | 45  | 40  | 57 | 48 | 43 | 39 | 44 | 39 | 36 |  | 39 | 36 | 34 |  | 35 | 33 | 31 | 29 |
| 10  | 58  | 48  | 42  | 38  | 54 | 45 | 40 | 37 | 41 | 37 | 34 |  | 37 | 34 | 32 |  | 34 | 31 | 30 | 28 |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 426611 |
| 5°  | 429825 |
| 10° | 406094 |
| 15° | 349332 |
| 20° | 299859 |
| 25° | 248143 |
| 30° | 132375 |
| 35° | 60231  |
| 40° | 38501  |
| 45° | 25336  |
| 50° | 17739  |
| 55° | 8869   |
| 60° | 2105   |
| 65° | 2075   |
| 70° | 2052   |
| 75° | 1356   |
| 80° | 1010   |
| 85° | 2013   |



TEST NUMBER: P221646

CATALOG NUMBER: 9003-W2-FL-LED3597-W-BK-L2-UNV

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 182.5  | 7.0       |
| 10°-20°   | 430.3  | 16.5      |
| 20°-30°   | 439.8  | 16.9      |
| 30°-40°   | 159.3  | 6.1       |
| 40°-50°   | 65.6   | 2.5       |
| 50°-60°   | 21.2   | 0.8       |
| 60°-70°   | 3.8    | 0.1       |
| 70°-80°   | 1.8    | 0.1       |
| 80°-90°   | 0.5    | 0.0       |
| 90°-100°  | 0.5    | 0.0       |
| 100°-110° | 1.8    | 0.1       |
| 110°-120° | 3.8    | 0.1       |
| 120°-130° | 21.2   | 0.8       |
| 130°-140° | 65.6   | 2.5       |
| 140°-150° | 159.3  | 6.1       |
| 150°-160° | 439.8  | 16.9      |
| 160°-170° | 430.3  | 16.5      |
| 170°-180° | 182.5  | 7.0       |
| 0°-30°    | 1052.6 | 40.3      |
| 0°-40°    | 1211.8 | 46.4      |
| 0°-60°    | 1298.6 | 49.8      |
| 0°-90°    | 1304.7 | 50.0      |
| 90°-120°  | 6.1    | 0.2       |
| 90°-150°  | 252.1  | 9.7       |
| 90°-180°  | 1305.0 | 50.0      |
| 0°-180°   | 2609.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 1946 |      |
| 5°   | 1953 | 182  |
| 15°  | 1539 | 430  |
| 25°  | 1026 | 440  |
| 35°  | 225  | 159  |
| 45°  | 82   | 66   |
| 55°  | 23   | 21   |
| 65°  | 4    | 4    |
| 75°  | 2    | 2    |
| 85°  | 1    | 1    |
| 90°  | 0    | 0    |
| 95°  | 1    | 1    |
| 105° | 2    | 2    |
| 115° | 4    | 4    |
| 125° | 23   | 21   |
| 135° | 82   | 66   |
| 145° | 225  | 159  |
| 155° | 1026 | 440  |
| 165° | 1539 | 430  |
| 175° | 1953 | 182  |
| 180° | 1946 |      |



TEST NUMBER: P221646

CATALOG NUMBER: 9003-W2-FL-LED3597-W-BK-L2-UNV

**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1945.5 |
| 1°    | 1939.9 |
| 2°    | 1940.7 |
| 3°    | 1947.9 |
| 4°    | 1954.3 |
| 5°    | 1952.7 |
| 6°    | 1947.1 |
| 7°    | 1929.5 |
| 8°    | 1901.5 |
| 9°    | 1864.6 |
| 10°   | 1823.8 |
| 11°   | 1775.0 |
| 12°   | 1721.3 |
| 13°   | 1661.3 |
| 14°   | 1598.8 |
| 15°   | 1538.8 |
| 16°   | 1481.1 |
| 17°   | 1430.7 |
| 18°   | 1384.3 |
| 19°   | 1333.0 |
| 20°   | 1285.0 |
| 21°   | 1239.4 |
| 22°   | 1194.5 |
| 23°   | 1151.3 |
| 24°   | 1100.0 |
| 25°   | 1025.6 |
| 26°   | 934.3  |
| 27°   | 835.0  |
| 28°   | 730.2  |
| 29°   | 624.5  |
| 30°   | 522.8  |
| 32.5° | 313.8  |
| 35°   | 225.0  |
| 37.5° | 173.7  |
| 40°   | 134.5  |
| 42.5° | 102.5  |
| 45°   | 81.7   |
| 47.5° | 65.7   |
| 50°   | 52.0   |
| 52.5° | 38.4   |
| 55°   | 23.2   |
| 57.5° | 6.4    |
| 60°   | 4.8    |
| 62.5° | 4.0    |
| 65°   | 4.0    |



TEST NUMBER: P221646

CATALOG NUMBER: 9003-W2-FL-LED3597-W-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

|        | 0°     |
|--------|--------|
| 67.5°  | 3.2    |
| 70°    | 3.2    |
| 72.5°  | 2.4    |
| 75°    | 1.6    |
| 77.5°  | 0.8    |
| 80°    | 0.8    |
| 82.5°  | 0.8    |
| 85°    | 0.8    |
| 87.5°  | 0.0    |
| 90°    | 0.0    |
| 92.5°  | 0.0    |
| 95°    | 0.8    |
| 97.5°  | 0.8    |
| 100°   | 0.8    |
| 102.5° | 0.8    |
| 105°   | 1.6    |
| 107.5° | 2.4    |
| 110°   | 3.2    |
| 112.5° | 3.2    |
| 115°   | 4.0    |
| 117.5° | 4.0    |
| 120°   | 4.8    |
| 122.5° | 6.4    |
| 125°   | 23.2   |
| 127.5° | 38.4   |
| 130°   | 52.0   |
| 132.5° | 65.7   |
| 135°   | 81.7   |
| 137.5° | 102.5  |
| 140°   | 134.5  |
| 142.5° | 173.7  |
| 145°   | 225.0  |
| 147.5° | 313.8  |
| 150°   | 522.8  |
| 151°   | 624.5  |
| 152°   | 730.2  |
| 153°   | 835.0  |
| 154°   | 934.3  |
| 155°   | 1025.6 |
| 156°   | 1100.0 |
| 157°   | 1151.3 |
| 158°   | 1194.5 |
| 159°   | 1239.4 |
| 160°   | 1285.0 |
| 161°   | 1333.0 |



TEST NUMBER: P221646

CATALOG NUMBER: 9003-W2-FL-LED3597-W-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

|      | 0°     |
|------|--------|
| 162° | 1384.3 |
| 163° | 1430.7 |
| 164° | 1481.1 |
| 165° | 1538.8 |
| 166° | 1598.8 |
| 167° | 1661.3 |
| 168° | 1721.3 |
| 169° | 1775.0 |
| 170° | 1823.8 |
| 171° | 1864.6 |
| 172° | 1901.5 |
| 173° | 1929.5 |
| 174° | 1947.1 |
| 175° | 1952.7 |
| 176° | 1954.3 |
| 177° | 1947.9 |
| 178° | 1940.7 |
| 179° | 1939.9 |
| 180° | 1945.5 |

(END OF REPORT)