

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: P220932

Luminaire Tested: **9004-W1-FL-LED3097-S-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29496)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W1-FL-LED3097-S-WT-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1526.2 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

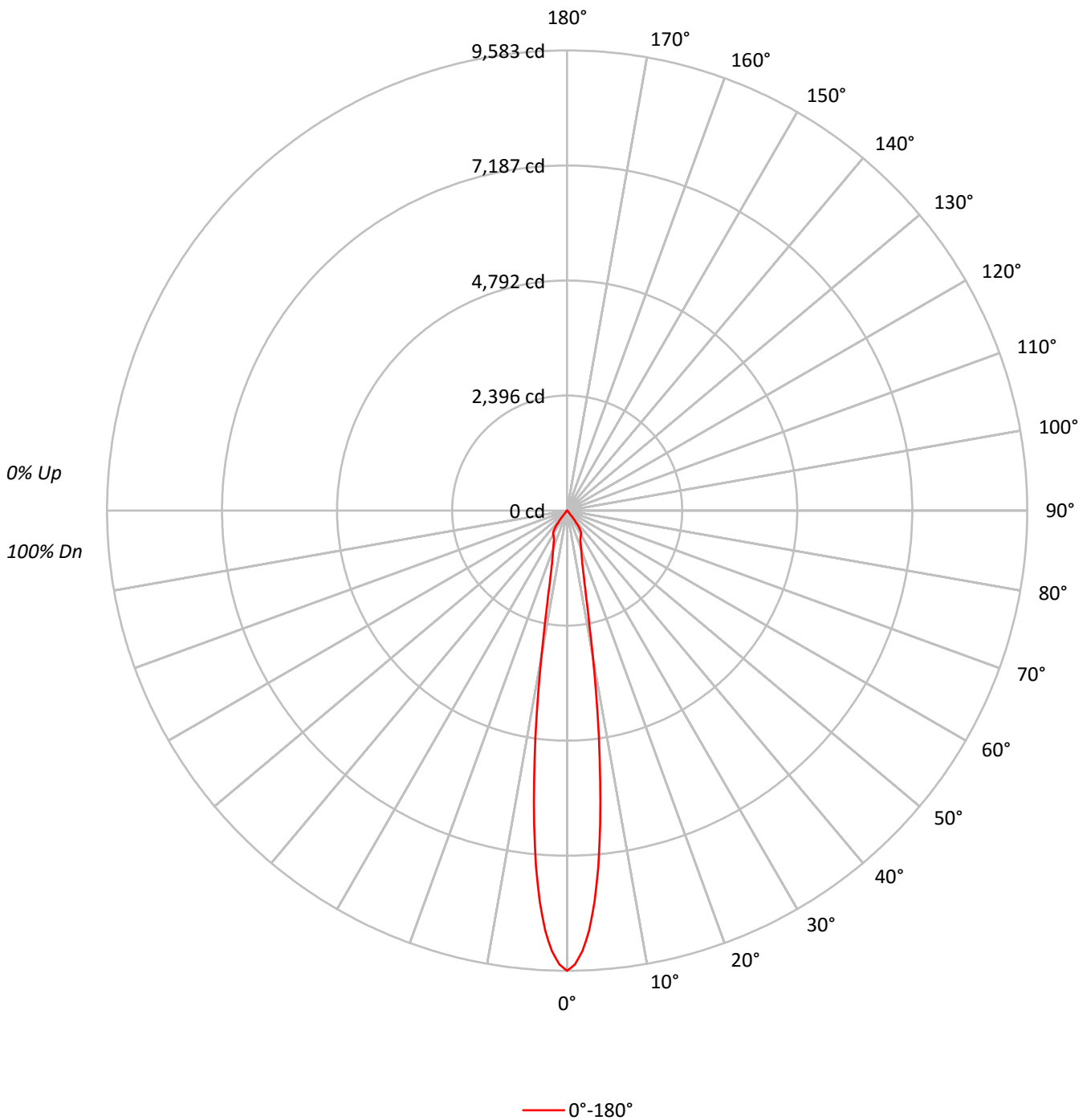
Input Watts (W): 20.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P220932

CATALOG NUMBER: 9004-W1-FL-LED3097-S-WT-L2-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P220932

CATALOG NUMBER: 9004-W1-FL-LED3097-S-WT-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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 115 | 112 | 110 | 108 | 112 | 110 | 108 | 107 | 106 | 105 | 104 | 103 | 101 | 100 | 99 | 98 | 98 | 96 |
| 2 | 110 | 106 | 103 | 100 | 108 | 105 | 102 | 99 | 102 | 99 | 97 | 99 | 97 | 95 | 96 | 95 | 93 | 92 |
| 3 | 106 | 101 | 97 | 94 | 104 | 100 | 96 | 93 | 97 | 94 | 92 | 95 | 93 | 90 | 93 | 91 | 89 | 88 |
| 4 | 102 | 97 | 92 | 89 | 101 | 95 | 91 | 88 | 93 | 90 | 87 | 92 | 89 | 86 | 90 | 87 | 85 | 84 |
| 5 | 99 | 92 | 88 | 84 | 97 | 91 | 87 | 84 | 90 | 86 | 83 | 88 | 85 | 83 | 87 | 84 | 82 | 81 |
| 6 | 95 | 89 | 84 | 81 | 94 | 88 | 83 | 80 | 86 | 83 | 80 | 85 | 82 | 79 | 84 | 81 | 79 | 78 |
| 7 | 92 | 85 | 80 | 77 | 91 | 85 | 80 | 77 | 83 | 79 | 77 | 82 | 79 | 76 | 81 | 78 | 76 | 75 |
| 8 | 89 | 82 | 77 | 74 | 88 | 82 | 77 | 74 | 81 | 77 | 74 | 80 | 76 | 74 | 79 | 76 | 73 | 72 |
| 9 | 87 | 79 | 75 | 72 | 86 | 79 | 74 | 71 | 78 | 74 | 71 | 77 | 74 | 71 | 76 | 73 | 71 | 70 |
| 10 | 84 | 77 | 72 | 69 | 83 | 76 | 72 | 69 | 76 | 72 | 69 | 75 | 71 | 69 | 74 | 71 | 69 | 68 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 1182058 |
| 5° | 920120 |
| 10° | 383223 |
| 15° | 162034 |
| 20° | 111205 |
| 25° | 88749 |
| 30° | 82024 |
| 35° | 67112 |
| 40° | 14121 |
| 45° | 3227 |
| 50° | 1151 |
| 55° | 946 |
| 60° | 543 |
| 65° | 321 |
| 70° | 180 |
| 75° | 238 |
| 80° | 0 |
| 85° | 0 |



TEST NUMBER: P220932

CATALOG NUMBER: 9004-W1-FL-LED3097-S-WT-L2-UNV

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 558.5 | 36.6 |
| 10°-20° | 391.4 | 25.6 |
| 20°-30° | 308.5 | 20.2 |
| 30°-40° | 242.9 | 15.9 |
| 40°-50° | 19.6 | 1.3 |
| 50°-60° | 3.8 | 0.3 |
| 60°-70° | 1.0 | 0.1 |
| 70°-80° | 0.5 | 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° | 1258.4 | 82.5 |
| 0°-40° | 1501.2 | 98.4 |
| 0°-60° | 1524.7 | 99.9 |
| 0°-90° | 1526.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1526.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 9583 | |
| 5° | 7431 | 558 |
| 15° | 1269 | 391 |
| 25° | 652 | 308 |
| 35° | 446 | 243 |
| 45° | 18 | 20 |
| 55° | 4 | 4 |
| 65° | 1 | 1 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



TEST NUMBER: P220932

CATALOG NUMBER: 9004-W1-FL-LED3097-S-WT-L2-UNV

CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 9583.3 |
| 1° | 9451.5 |
| 2° | 9177.4 |
| 3° | 8752.5 |
| 4° | 8171.2 |
| 5° | 7431.3 |
| 6° | 6577.0 |
| 7° | 5654.1 |
| 8° | 4748.6 |
| 9° | 3837.1 |
| 10° | 3059.7 |
| 11° | 2439.1 |
| 12° | 1989.1 |
| 13° | 1670.4 |
| 14° | 1439.4 |
| 15° | 1268.9 |
| 16° | 1140.8 |
| 17° | 1047.1 |
| 18° | 975.8 |
| 19° | 907.7 |
| 20° | 847.2 |
| 21° | 797.1 |
| 22° | 752.4 |
| 23° | 713.2 |
| 24° | 678.8 |
| 25° | 652.1 |
| 26° | 632.0 |
| 27° | 616.7 |
| 28° | 602.0 |
| 29° | 588.9 |
| 30° | 575.9 |
| 32.5° | 543.2 |
| 35° | 445.7 |
| 37.5° | 265.9 |
| 40° | 87.7 |
| 42.5° | 26.2 |
| 45° | 18.5 |
| 47.5° | 13.1 |
| 50° | 6.0 |
| 52.5° | 5.4 |
| 55° | 4.4 |
| 57.5° | 3.3 |
| 60° | 2.2 |
| 62.5° | 1.1 |
| 65° | 1.1 |



TEST NUMBER: P220932

CATALOG NUMBER: 9004-W1-FL-LED3097-S-WT-L2-UNV

CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 67.5° | 0.5 |
| 70° | 0.5 |
| 72.5° | 0.5 |
| 75° | 0.5 |
| 77.5° | 0.5 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)