

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: P222056

Luminaire Tested: **9004-W2-FL-LED3097-W-WT-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29499)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED3097-W-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3938.7 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

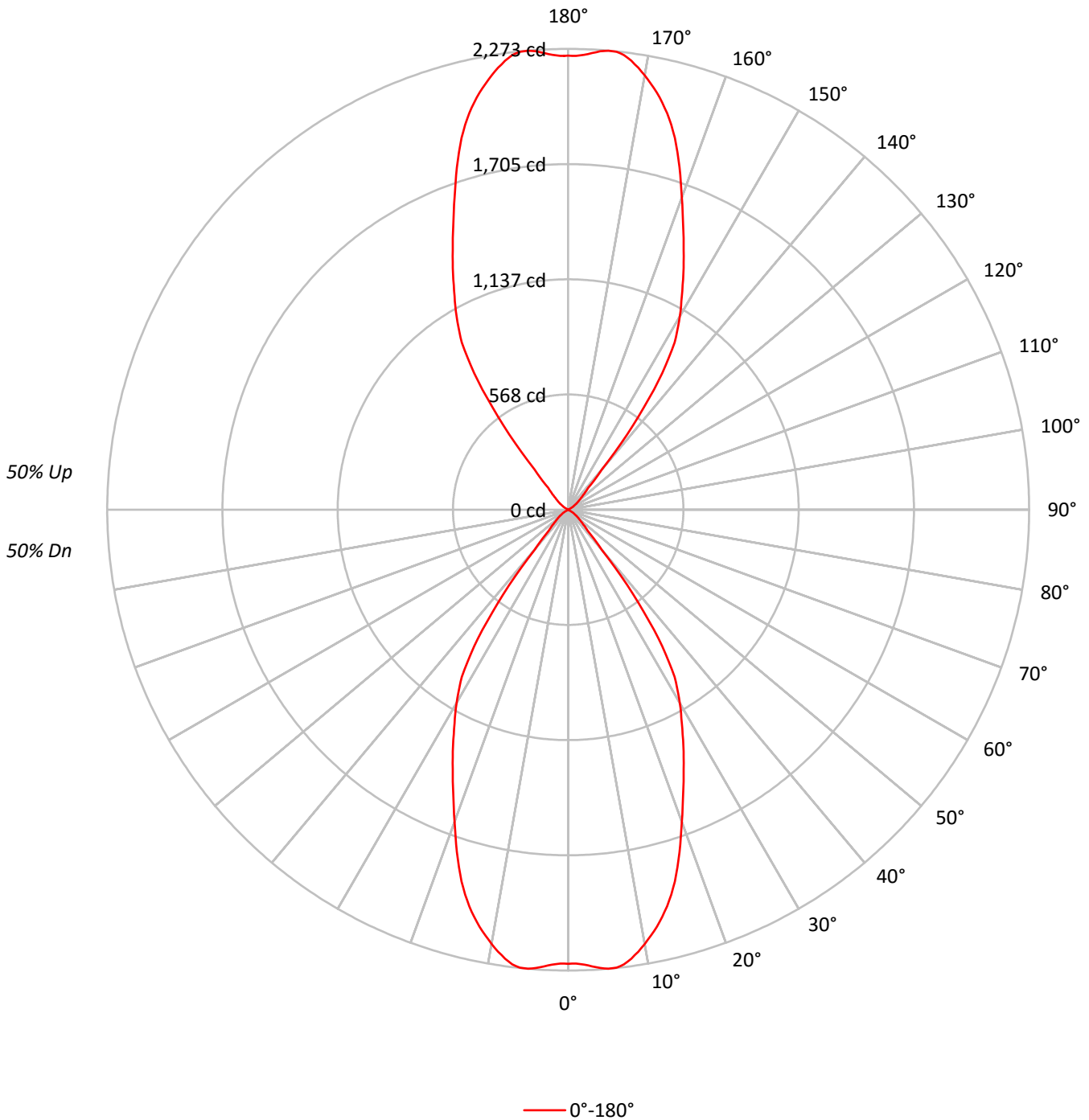
Input Watts (W): 57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P222056

CATALOG NUMBER: 9004-W2-FL-LED3097-W-WT-L3-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P222056

CATALOG NUMBER: 9004-W2-FL-LED3097-W-WT-L3-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 | 92 | 90 | 87 | 85 | 76 | 75 | 73 | | 64 | 63 | 62 | | 53 | 53 | 52 | 47 |
| 2 | 93 | 88 | 83 | 79 | 86 | 81 | 77 | 74 | 70 | 67 | 65 | | 60 | 58 | 56 | | 50 | 49 | 48 | 43 |
| 3 | 87 | 80 | 74 | 69 | 81 | 74 | 69 | 65 | 65 | 61 | 58 | | 56 | 53 | 51 | | 47 | 46 | 44 | 40 |
| 4 | 81 | 73 | 66 | 61 | 76 | 68 | 63 | 58 | 60 | 56 | 52 | | 52 | 49 | 47 | | 44 | 42 | 41 | 38 |
| 5 | 76 | 67 | 60 | 55 | 71 | 63 | 57 | 53 | 55 | 51 | 48 | | 48 | 45 | 43 | | 42 | 40 | 38 | 35 |
| 6 | 71 | 61 | 55 | 50 | 66 | 58 | 52 | 48 | 51 | 47 | 43 | | 45 | 42 | 39 | | 39 | 37 | 35 | 33 |
| 7 | 67 | 57 | 50 | 45 | 62 | 54 | 48 | 44 | 48 | 43 | 40 | | 42 | 39 | 36 | | 37 | 35 | 33 | 31 |
| 8 | 63 | 52 | 46 | 41 | 59 | 50 | 44 | 40 | 45 | 40 | 37 | | 40 | 36 | 34 | | 35 | 33 | 31 | 29 |
| 9 | 59 | 49 | 42 | 38 | 56 | 46 | 41 | 37 | 42 | 37 | 34 | | 37 | 34 | 31 | | 33 | 31 | 29 | 27 |
| 10 | 56 | 46 | 39 | 35 | 52 | 43 | 38 | 34 | 39 | 35 | 32 | | 35 | 32 | 29 | | 31 | 29 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 276245 |
| 5° | 281411 |
| 10° | 272465 |
| 15° | 250937 |
| 20° | 215046 |
| 25° | 183377 |
| 30° | 156827 |
| 35° | 117224 |
| 40° | 41591 |
| 45° | 19450 |
| 50° | 12876 |
| 55° | 8645 |
| 60° | 4342 |
| 65° | 1022 |
| 70° | 757 |
| 75° | 667 |
| 80° | 0 |
| 85° | 0 |



TEST NUMBER: P222056

CATALOG NUMBER: 9004-W2-FL-LED3097-W-WT-L3-UNV

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 213.9 | 5.4 |
| 10°-20° | 542.4 | 13.8 |
| 20°-30° | 619.1 | 15.7 |
| 30°-40° | 454.5 | 11.5 |
| 40°-50° | 96.5 | 2.4 |
| 50°-60° | 36.4 | 0.9 |
| 60°-70° | 5.2 | 0.1 |
| 70°-80° | 1.4 | 0.0 |
| 80°-90° | 0.0 | 0.0 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 1.4 | 0.0 |
| 110°-120° | 5.2 | 0.1 |
| 120°-130° | 36.4 | 0.9 |
| 130°-140° | 96.5 | 2.4 |
| 140°-150° | 454.5 | 11.5 |
| 150°-160° | 619.1 | 15.7 |
| 160°-170° | 542.4 | 13.8 |
| 170°-180° | 213.9 | 5.4 |
| 0°-30° | 1375.4 | 34.9 |
| 0°-40° | 1829.9 | 46.5 |
| 0°-60° | 1962.8 | 49.8 |
| 0°-90° | 1969.3 | 50.0 |
| 90°-120° | 6.5 | 0.2 |
| 90°-150° | 594.0 | 15.1 |
| 90°-180° | 1969.0 | 50.0 |
| 0°-180° | 3938.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 2240 | |
| 5° | 2273 | 214 |
| 15° | 1965 | 542 |
| 25° | 1347 | 619 |
| 35° | 778 | 455 |
| 45° | 112 | 96 |
| 55° | 40 | 36 |
| 65° | 4 | 5 |
| 75° | 1 | 1 |
| 85° | 0 | 0 |
| 90° | 0 | 0 |
| 95° | 0 | 0 |
| 105° | 1 | 1 |
| 115° | 4 | 5 |
| 125° | 40 | 36 |
| 135° | 112 | 96 |
| 145° | 778 | 455 |
| 155° | 1347 | 619 |
| 165° | 1965 | 542 |
| 175° | 2273 | 214 |
| 180° | 2240 | |



TEST NUMBER: P222056

CATALOG NUMBER: 9004-W2-FL-LED3097-W-WT-L3-UNV

CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 2239.6 |
| 1° | 2238.9 |
| 2° | 2244.6 |
| 3° | 2255.9 |
| 4° | 2266.4 |
| 5° | 2272.8 |
| 6° | 2271.4 |
| 7° | 2259.4 |
| 8° | 2236.1 |
| 9° | 2207.2 |
| 10° | 2175.4 |
| 11° | 2139.4 |
| 12° | 2102.7 |
| 13° | 2061.0 |
| 14° | 2015.9 |
| 15° | 1965.1 |
| 16° | 1907.2 |
| 17° | 1842.9 |
| 18° | 1776.6 |
| 19° | 1706.7 |
| 20° | 1638.3 |
| 21° | 1574.7 |
| 22° | 1513.3 |
| 23° | 1455.4 |
| 24° | 1400.4 |
| 25° | 1347.4 |
| 26° | 1295.9 |
| 27° | 1243.7 |
| 28° | 1193.6 |
| 29° | 1147.0 |
| 30° | 1101.1 |
| 32.5° | 977.6 |
| 35° | 778.5 |
| 37.5° | 525.8 |
| 40° | 258.3 |
| 42.5° | 145.4 |
| 45° | 111.5 |
| 47.5° | 87.5 |
| 50° | 67.1 |
| 52.5° | 52.9 |
| 55° | 40.2 |
| 57.5° | 28.9 |
| 60° | 17.6 |
| 62.5° | 4.9 |
| 65° | 3.5 |



TEST NUMBER: P222056

CATALOG NUMBER: 9004-W2-FL-LED3097-W-WT-L3-UNV

CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|--------|
| 67.5° | 2.8 |
| 70° | 2.1 |
| 72.5° | 2.1 |
| 75° | 1.4 |
| 77.5° | 0.7 |
| 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° | 0.7 |
| 105° | 1.4 |
| 107.5° | 2.1 |
| 110° | 2.1 |
| 112.5° | 2.8 |
| 115° | 3.5 |
| 117.5° | 4.9 |
| 120° | 17.6 |
| 122.5° | 28.9 |
| 125° | 40.2 |
| 127.5° | 52.9 |
| 130° | 67.1 |
| 132.5° | 87.5 |
| 135° | 111.5 |
| 137.5° | 145.4 |
| 140° | 258.3 |
| 142.5° | 525.8 |
| 145° | 778.5 |
| 147.5° | 977.6 |
| 150° | 1101.1 |
| 151° | 1147.0 |
| 152° | 1193.6 |
| 153° | 1243.7 |
| 154° | 1295.9 |
| 155° | 1347.4 |
| 156° | 1400.4 |
| 157° | 1455.4 |
| 158° | 1513.3 |
| 159° | 1574.7 |
| 160° | 1638.3 |
| 161° | 1706.7 |



TEST NUMBER: P222056

CATALOG NUMBER: 9004-W2-FL-LED3097-W-WT-L3-UNV

CANDELA DISTRIBUTION (continued):

| | 0° |
|------|--------|
| 162° | 1776.6 |
| 163° | 1842.9 |
| 164° | 1907.2 |
| 165° | 1965.1 |
| 166° | 2015.9 |
| 167° | 2061.0 |
| 168° | 2102.7 |
| 169° | 2139.4 |
| 170° | 2175.4 |
| 171° | 2207.2 |
| 172° | 2236.1 |
| 173° | 2259.4 |
| 174° | 2271.4 |
| 175° | 2272.8 |
| 176° | 2266.4 |
| 177° | 2255.9 |
| 178° | 2244.6 |
| 179° | 2238.9 |
| 180° | 2239.6 |

(END OF REPORT)