

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: P221643

Luminaire Tested: **9003-W2-FL-LED3597-S-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29476)
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-S-WT-L1-UNV
Description: LUMIERE LANTERRA 9003 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1475.9 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: General Diffuse

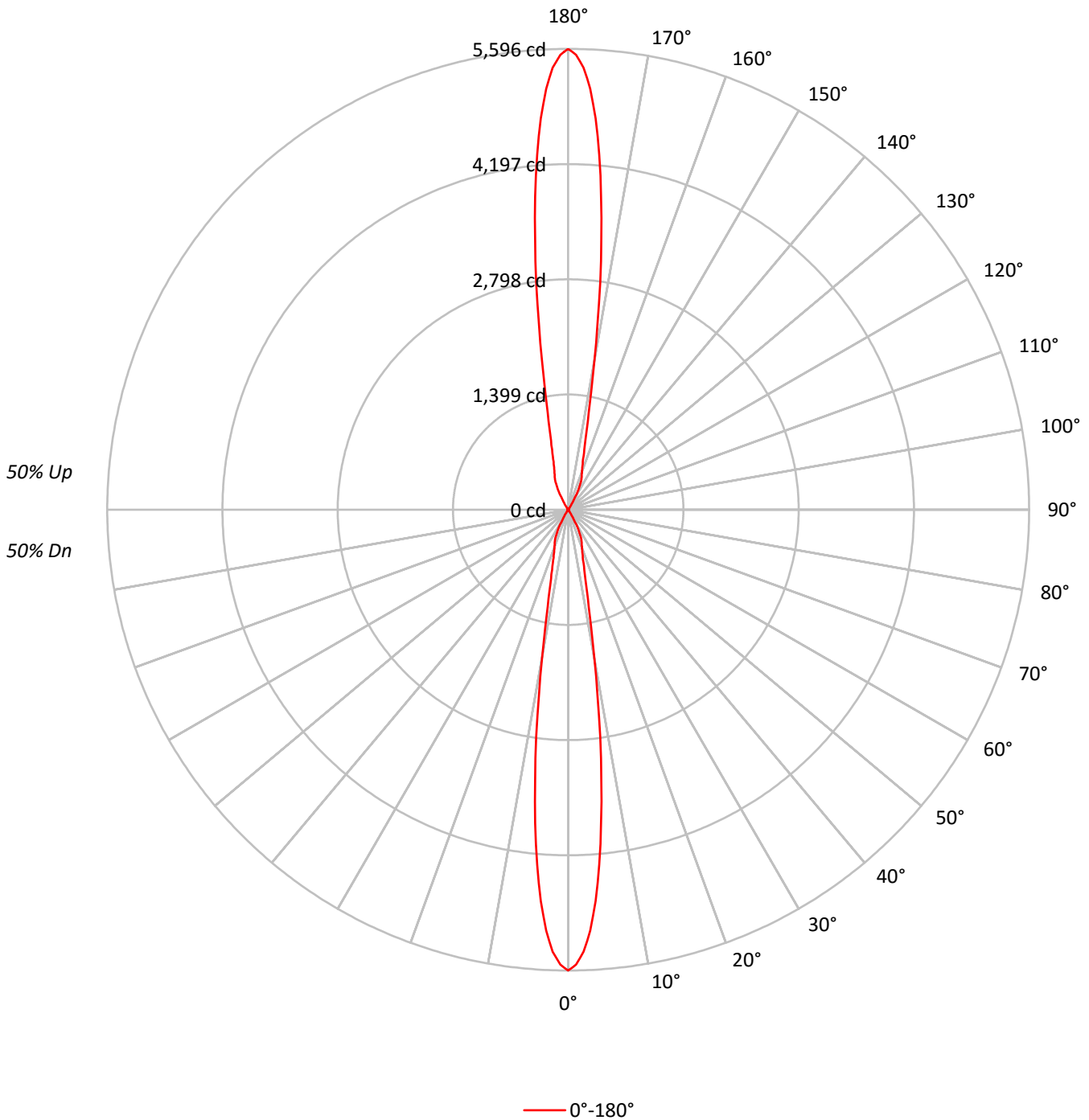
Input Watts (W): 19.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221643

CATALOG NUMBER: 9003-W2-FL-LED3597-S-WT-L1-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221643

CATALOG NUMBER: 9003-W2-FL-LED3597-S-WT-L1-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 | 101 | 98 | 95 | 93 | 93 | 91 | 89 | 87 | 78 | 76 | 75 | | 66 | 65 | 64 | | 54 | 54 | 53 | 48 |
| 2 | 95 | 90 | 86 | 82 | 88 | 84 | 80 | 77 | 73 | 70 | 68 | | 62 | 61 | 60 | | 53 | 52 | 51 | 47 |
| 3 | 90 | 83 | 78 | 74 | 84 | 78 | 74 | 70 | 68 | 66 | 63 | | 60 | 58 | 56 | | 51 | 50 | 49 | 45 |
| 4 | 85 | 78 | 72 | 68 | 80 | 73 | 69 | 65 | 65 | 61 | 59 | | 57 | 55 | 53 | | 50 | 48 | 47 | 44 |
| 5 | 81 | 73 | 67 | 63 | 76 | 69 | 64 | 60 | 61 | 58 | 55 | | 55 | 52 | 50 | | 48 | 47 | 46 | 43 |
| 6 | 77 | 69 | 63 | 59 | 72 | 65 | 60 | 57 | 59 | 55 | 52 | | 53 | 50 | 48 | | 47 | 45 | 44 | 42 |
| 7 | 74 | 65 | 59 | 55 | 69 | 62 | 57 | 53 | 56 | 52 | 50 | | 51 | 48 | 46 | | 46 | 44 | 43 | 41 |
| 8 | 70 | 62 | 56 | 52 | 66 | 59 | 54 | 51 | 54 | 50 | 48 | | 49 | 46 | 45 | | 44 | 43 | 42 | 40 |
| 9 | 68 | 59 | 53 | 50 | 64 | 56 | 52 | 48 | 52 | 48 | 46 | | 47 | 45 | 43 | | 43 | 42 | 40 | 39 |
| 10 | 65 | 56 | 51 | 48 | 62 | 54 | 49 | 46 | 50 | 46 | 44 | | 46 | 43 | 42 | | 42 | 41 | 39 | 38 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 1227051 |
| 5° | 952694 |
| 10° | 406984 |
| 15° | 172078 |
| 20° | 114087 |
| 25° | 85505 |
| 30° | 32765 |
| 35° | 5006 |
| 40° | 2748 |
| 45° | 1209 |
| 50° | 887 |
| 55° | 841 |
| 60° | 965 |
| 65° | 882 |
| 70° | 833 |
| 75° | 763 |
| 80° | 505 |
| 85° | 1006 |



TEST NUMBER: P221643

CATALOG NUMBER: 9003-W2-FL-LED3597-S-WT-L1-UNV

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 327.1 | 22.2 |
| 10°-20° | 231.8 | 15.7 |
| 20°-30° | 149.4 | 10.1 |
| 30°-40° | 21.5 | 1.5 |
| 40°-50° | 3.4 | 0.2 |
| 50°-60° | 2.1 | 0.1 |
| 60°-70° | 1.6 | 0.1 |
| 70°-80° | 0.8 | 0.1 |
| 80°-90° | 0.3 | 0.0 |
| 90°-100° | 0.3 | 0.0 |
| 100°-110° | 0.8 | 0.1 |
| 110°-120° | 1.6 | 0.1 |
| 120°-130° | 2.1 | 0.1 |
| 130°-140° | 3.4 | 0.2 |
| 140°-150° | 21.5 | 1.5 |
| 150°-160° | 149.4 | 10.1 |
| 160°-170° | 231.8 | 15.7 |
| 170°-180° | 327.1 | 22.2 |
| 0°-30° | 708.3 | 48.0 |
| 0°-40° | 729.8 | 49.4 |
| 0°-60° | 735.3 | 49.8 |
| 0°-90° | 738.0 | 50.0 |
| 90°-120° | 2.7 | 0.2 |
| 90°-150° | 29.7 | 2.0 |
| 90°-180° | 738.0 | 50.0 |
| 0°-180° | 1475.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 5596 | |
| 5° | 4328 | 327 |
| 15° | 758 | 232 |
| 25° | 353 | 149 |
| 35° | 19 | 22 |
| 45° | 4 | 3 |
| 55° | 2 | 2 |
| 65° | 2 | 2 |
| 75° | 1 | 1 |
| 85° | 0 | 0 |
| 90° | 0 | 0 |
| 95° | 0 | 0 |
| 105° | 1 | 1 |
| 115° | 2 | 2 |
| 125° | 2 | 2 |
| 135° | 4 | 3 |
| 145° | 19 | 22 |
| 155° | 353 | 149 |
| 165° | 758 | 232 |
| 175° | 4328 | 327 |
| 180° | 5596 | |



TEST NUMBER: P221643

CATALOG NUMBER: 9003-W2-FL-LED3597-S-WT-L1-UNV

CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 5595.8 |
| 1° | 5525.9 |
| 2° | 5371.3 |
| 3° | 5117.4 |
| 4° | 4764.0 |
| 5° | 4328.1 |
| 6° | 3827.1 |
| 7° | 3303.9 |
| 8° | 2786.4 |
| 9° | 2275.0 |
| 10° | 1827.8 |
| 11° | 1462.7 |
| 12° | 1199.6 |
| 13° | 1007.2 |
| 14° | 864.4 |
| 15° | 758.0 |
| 16° | 670.3 |
| 17° | 606.5 |
| 18° | 560.9 |
| 19° | 521.0 |
| 20° | 488.9 |
| 21° | 461.1 |
| 22° | 436.8 |
| 23° | 414.2 |
| 24° | 388.1 |
| 25° | 353.4 |
| 26° | 312.6 |
| 27° | 268.7 |
| 28° | 221.0 |
| 29° | 173.7 |
| 30° | 129.4 |
| 32.5° | 43.0 |
| 35° | 18.7 |
| 37.5° | 13.5 |
| 40° | 9.6 |
| 42.5° | 4.8 |
| 45° | 3.9 |
| 47.5° | 3.0 |
| 50° | 2.6 |
| 52.5° | 2.6 |
| 55° | 2.2 |
| 57.5° | 2.2 |
| 60° | 2.2 |
| 62.5° | 1.7 |
| 65° | 1.7 |



TEST NUMBER: P221643

CATALOG NUMBER: 9003-W2-FL-LED3597-S-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|-------|
| 67.5° | 1.3 |
| 70° | 1.3 |
| 72.5° | 0.9 |
| 75° | 0.9 |
| 77.5° | 0.4 |
| 80° | 0.4 |
| 82.5° | 0.4 |
| 85° | 0.4 |
| 87.5° | 0.0 |
| 90° | 0.0 |
| 92.5° | 0.0 |
| 95° | 0.4 |
| 97.5° | 0.4 |
| 100° | 0.4 |
| 102.5° | 0.4 |
| 105° | 0.9 |
| 107.5° | 0.9 |
| 110° | 1.3 |
| 112.5° | 1.3 |
| 115° | 1.7 |
| 117.5° | 1.7 |
| 120° | 2.2 |
| 122.5° | 2.2 |
| 125° | 2.2 |
| 127.5° | 2.6 |
| 130° | 2.6 |
| 132.5° | 3.0 |
| 135° | 3.9 |
| 137.5° | 4.8 |
| 140° | 9.6 |
| 142.5° | 13.5 |
| 145° | 18.7 |
| 147.5° | 43.0 |
| 150° | 129.4 |
| 151° | 173.7 |
| 152° | 221.0 |
| 153° | 268.7 |
| 154° | 312.6 |
| 155° | 353.4 |
| 156° | 388.1 |
| 157° | 414.2 |
| 158° | 436.8 |
| 159° | 461.1 |
| 160° | 488.9 |
| 161° | 521.0 |



TEST NUMBER: P221643

CATALOG NUMBER: 9003-W2-FL-LED3597-S-WT-L1-UNV

CANDELA DISTRIBUTION (continued):

| | 0° |
|------|--------|
| 162° | 560.9 |
| 163° | 606.5 |
| 164° | 670.3 |
| 165° | 758.0 |
| 166° | 864.4 |
| 167° | 1007.2 |
| 168° | 1199.6 |
| 169° | 1462.7 |
| 170° | 1827.8 |
| 171° | 2275.0 |
| 172° | 2786.4 |
| 173° | 3303.9 |
| 174° | 3827.1 |
| 175° | 4328.1 |
| 176° | 4764.0 |
| 177° | 5117.4 |
| 178° | 5371.3 |
| 179° | 5525.9 |
| 180° | 5595.8 |

(END OF REPORT)