

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: P221634

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29478)
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-F-BK-L2-UNV
Description: LUMIERE LANTERRA 9003 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2861.5 lumens
Efficiency: N/A
Efficacy: 71.2 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

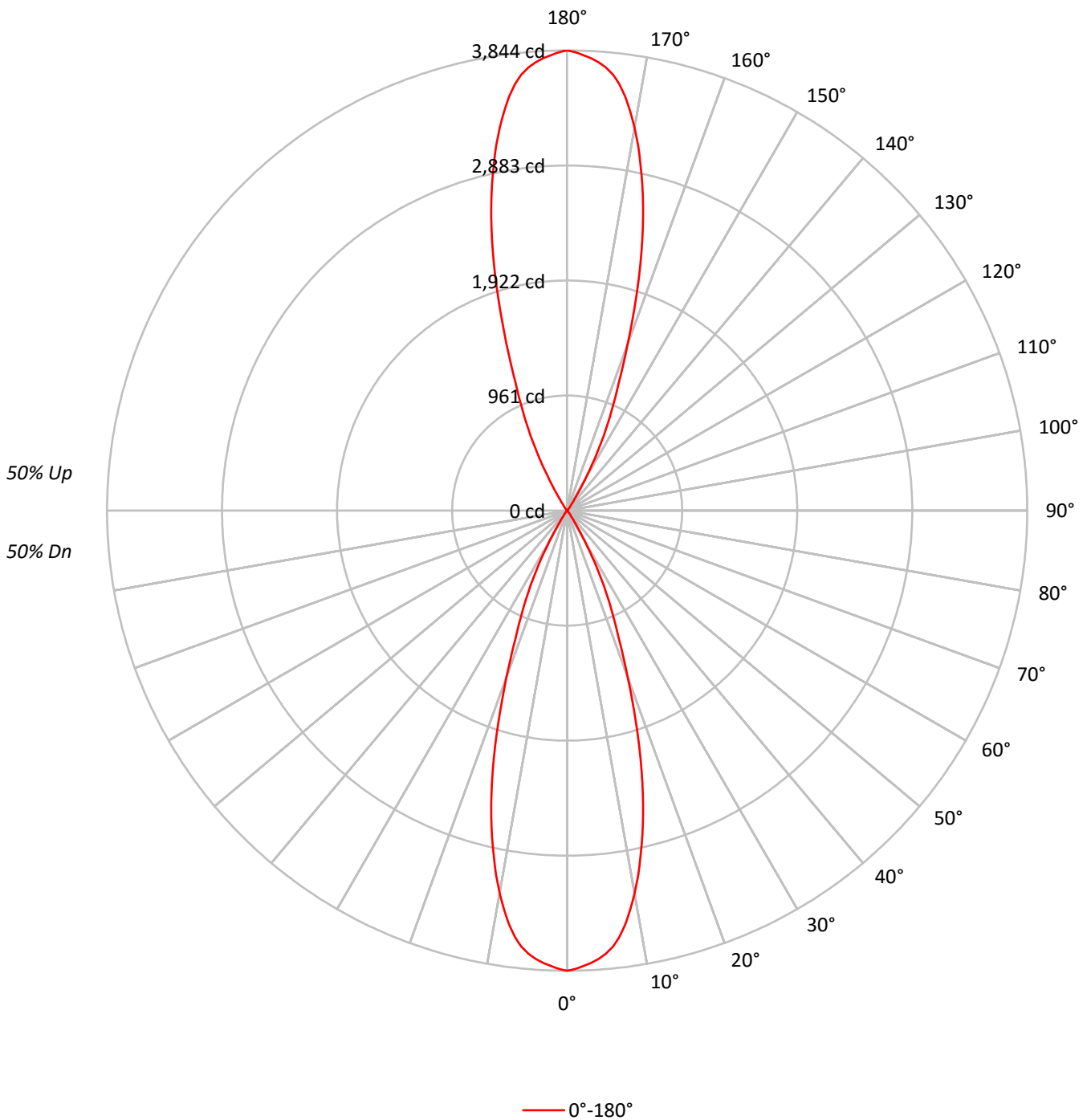
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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 | 97 | 95 | 92 | 93 | 90 | 88 | 86 | 77 | 76 | 74 | 65 | 64 | 63 | 54 | 54 | 53 | 48 | | | | |
| 2 | 95 | 89 | 85 | 81 | 88 | 83 | 80 | 76 | 72 | 69 | 67 | 62 | 60 | 59 | 52 | 51 | 50 | 46 | | | | |
| 3 | 89 | 82 | 77 | 73 | 83 | 77 | 73 | 69 | 67 | 64 | 62 | 58 | 56 | 55 | 50 | 49 | 48 | 44 | | | | |
| 4 | 84 | 76 | 71 | 66 | 78 | 72 | 67 | 63 | 63 | 60 | 57 | 55 | 53 | 51 | 48 | 47 | 45 | 42 | | | | |
| 5 | 79 | 71 | 65 | 61 | 74 | 67 | 62 | 58 | 60 | 56 | 53 | 53 | 50 | 48 | 46 | 45 | 43 | 41 | | | | |
| 6 | 75 | 66 | 60 | 56 | 71 | 63 | 58 | 54 | 56 | 53 | 50 | 50 | 48 | 46 | 45 | 43 | 42 | 39 | | | | |
| 7 | 72 | 62 | 56 | 52 | 67 | 59 | 54 | 50 | 54 | 50 | 47 | 48 | 45 | 43 | 43 | 41 | 40 | 38 | | | | |
| 8 | 68 | 59 | 53 | 49 | 64 | 56 | 51 | 47 | 51 | 47 | 44 | 46 | 43 | 41 | 42 | 40 | 38 | 36 | | | | |
| 9 | 65 | 56 | 50 | 46 | 61 | 53 | 48 | 45 | 49 | 45 | 42 | 44 | 41 | 39 | 40 | 38 | 37 | 35 | | | | |
| 10 | 62 | 53 | 47 | 44 | 59 | 51 | 46 | 42 | 46 | 43 | 40 | 42 | 40 | 38 | 39 | 37 | 35 | 34 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 842871 |
| 5° | 817894 |
| 10° | 723055 |
| 15° | 555259 |
| 20° | 345620 |
| 25° | 194866 |
| 30° | 73986 |
| 35° | 15847 |
| 40° | 6183 |
| 45° | 1985 |
| 50° | 1637 |
| 55° | 1223 |
| 60° | 1053 |
| 65° | 1245 |
| 70° | 1026 |
| 75° | 1356 |
| 80° | 1010 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 340.1 | 11.9 |
| 10°-20° | 656.3 | 22.9 |
| 20°-30° | 366.0 | 12.8 |
| 30°-40° | 55.3 | 1.9 |
| 40°-50° | 6.1 | 0.2 |
| 50°-60° | 3.1 | 0.1 |
| 60°-70° | 2.1 | 0.1 |
| 70°-80° | 1.4 | 0.0 |
| 80°-90° | 0.3 | 0.0 |
| 90°-100° | 0.5 | 0.0 |
| 100°-110° | 1.4 | 0.0 |
| 110°-120° | 2.1 | 0.1 |
| 120°-130° | 3.1 | 0.1 |
| 130°-140° | 6.1 | 0.2 |
| 140°-150° | 55.3 | 1.9 |
| 150°-160° | 366.0 | 12.8 |
| 160°-170° | 656.3 | 22.9 |
| 170°-180° | 340.1 | 11.9 |
| 0°-30° | 1362.4 | 47.6 |
| 0°-40° | 1417.7 | 49.5 |
| 0°-60° | 1427.0 | 49.9 |
| 0°-90° | 1430.8 | 50.0 |
| 90°-120° | 4.0 | 0.1 |
| 90°-150° | 68.5 | 2.4 |
| 90°-180° | 1431.0 | 50.0 |
| 0°-180° | 2861.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 3844 | |
| 5° | 3716 | 340 |
| 15° | 2446 | 656 |
| 25° | 805 | 366 |
| 35° | 59 | 55 |
| 45° | 6 | 6 |
| 55° | 3 | 3 |
| 65° | 2 | 2 |
| 75° | 2 | 1 |
| 85° | 0 | 0 |
| 90° | 0 | 0 |
| 95° | 0 | 0 |
| 105° | 2 | 1 |
| 115° | 2 | 2 |
| 125° | 3 | 3 |
| 135° | 6 | 6 |
| 145° | 59 | 55 |
| 155° | 805 | 366 |
| 165° | 2446 | 656 |
| 175° | 3716 | 340 |
| 180° | 3844 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 3843.8 |
| 1° | 3830.1 |
| 2° | 3807.7 |
| 3° | 3784.5 |
| 4° | 3754.9 |
| 5° | 3715.7 |
| 6° | 3662.8 |
| 7° | 3586.8 |
| 8° | 3489.1 |
| 9° | 3373.8 |
| 10° | 3247.3 |
| 11° | 3105.6 |
| 12° | 2951.9 |
| 13° | 2792.5 |
| 14° | 2622.0 |
| 15° | 2445.9 |
| 16° | 2255.3 |
| 17° | 2058.4 |
| 18° | 1858.2 |
| 19° | 1666.9 |
| 20° | 1481.1 |
| 21° | 1309.0 |
| 22° | 1156.9 |
| 23° | 1028.8 |
| 24° | 917.5 |
| 25° | 805.4 |
| 26° | 695.7 |
| 27° | 589.3 |
| 28° | 486.0 |
| 29° | 386.7 |
| 30° | 292.2 |
| 32.5° | 116.9 |
| 35° | 59.2 |
| 37.5° | 36.8 |
| 40° | 21.6 |
| 42.5° | 8.0 |
| 45° | 6.4 |
| 47.5° | 4.8 |
| 50° | 4.8 |
| 52.5° | 4.0 |
| 55° | 3.2 |
| 57.5° | 3.2 |
| 60° | 2.4 |
| 62.5° | 2.4 |
| 65° | 2.4 |



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

CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|--------|
| 67.5° | 1.6 |
| 70° | 1.6 |
| 72.5° | 1.6 |
| 75° | 1.6 |
| 77.5° | 0.8 |
| 80° | 0.8 |
| 82.5° | 0.8 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |
| 92.5° | 0.0 |
| 95° | 0.0 |
| 97.5° | 0.8 |
| 100° | 0.8 |
| 102.5° | 0.8 |
| 105° | 1.6 |
| 107.5° | 1.6 |
| 110° | 1.6 |
| 112.5° | 1.6 |
| 115° | 2.4 |
| 117.5° | 2.4 |
| 120° | 2.4 |
| 122.5° | 3.2 |
| 125° | 3.2 |
| 127.5° | 4.0 |
| 130° | 4.8 |
| 132.5° | 4.8 |
| 135° | 6.4 |
| 137.5° | 8.0 |
| 140° | 21.6 |
| 142.5° | 36.8 |
| 145° | 59.2 |
| 147.5° | 116.9 |
| 150° | 292.2 |
| 151° | 386.7 |
| 152° | 486.0 |
| 153° | 589.3 |
| 154° | 695.7 |
| 155° | 805.4 |
| 156° | 917.5 |
| 157° | 1028.8 |
| 158° | 1156.9 |
| 159° | 1309.0 |
| 160° | 1481.1 |
| 161° | 1666.9 |



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

CANDELA DISTRIBUTION (continued):

| | 0° |
|------|--------|
| 162° | 1858.2 |
| 163° | 2058.4 |
| 164° | 2255.3 |
| 165° | 2445.9 |
| 166° | 2622.0 |
| 167° | 2792.5 |
| 168° | 2951.9 |
| 169° | 3105.6 |
| 170° | 3247.3 |
| 171° | 3373.8 |
| 172° | 3489.1 |
| 173° | 3586.8 |
| 174° | 3662.8 |
| 175° | 3715.7 |
| 176° | 3754.9 |
| 177° | 3784.5 |
| 178° | 3807.7 |
| 179° | 3830.1 |
| 180° | 3843.8 |

(END OF REPORT)