

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: P221480

Luminaire Tested: **9003-W2-[RW, RI]-LED3597-W-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29471)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9003-W2-[RW, RI]-LED3597-W-WT-L2-UNV
Description: LUMIERE LANTERRA 9003 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3500K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2724.7 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.68
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: General Diffuse

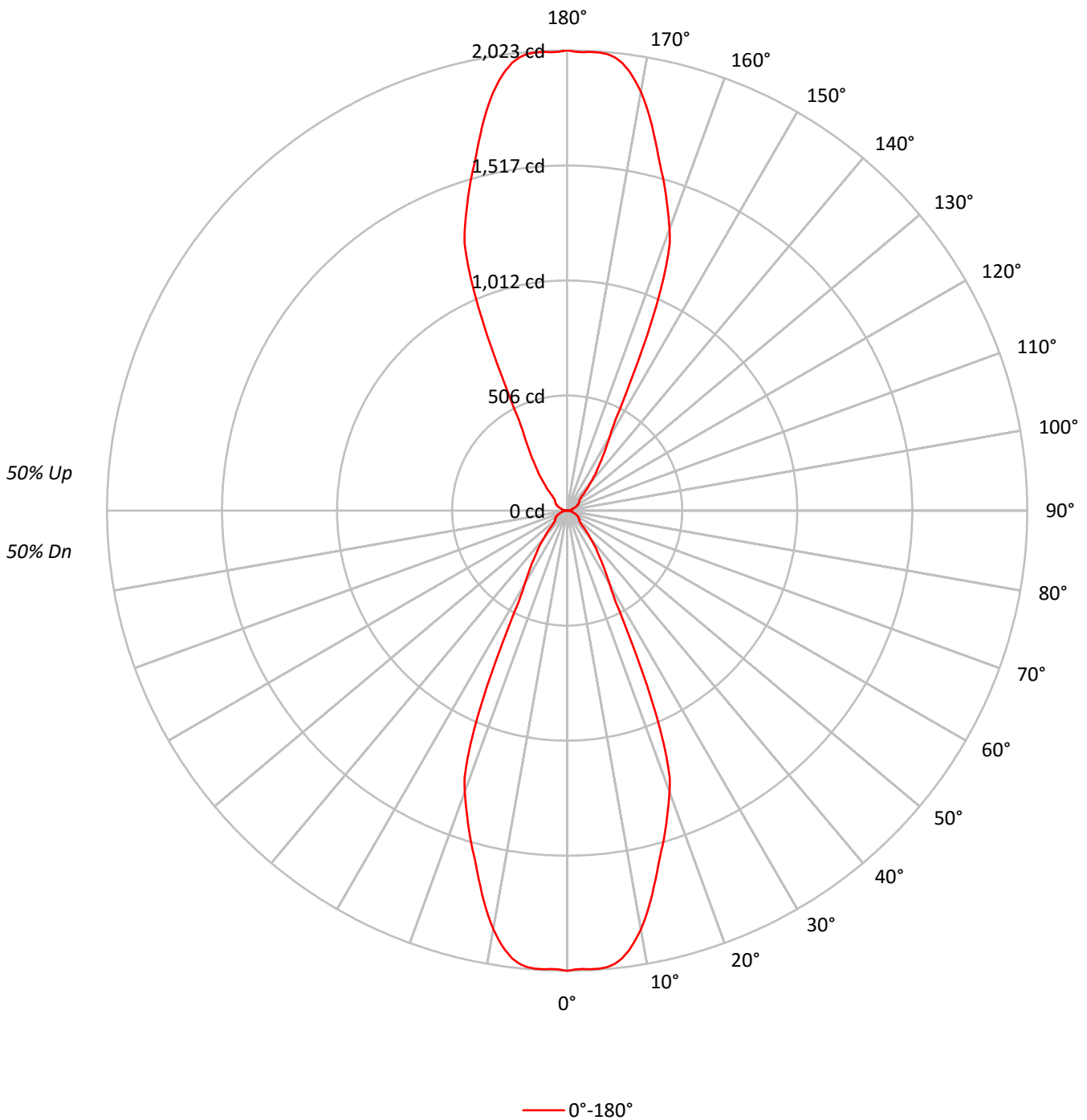
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | | 69 | 69 | 69 | | 56 | 56 | 56 | 50 |
| 1 | 100 | 96 | 93 | 90 | 92 | 89 | 86 | 84 | 76 | 74 | 72 | | 64 | 63 | 61 | | 53 | 52 | 51 | 46 |
| 2 | 93 | 87 | 82 | 78 | 86 | 81 | 76 | 73 | 69 | 66 | 64 | | 59 | 57 | 55 | | 49 | 48 | 47 | 42 |
| 3 | 86 | 79 | 73 | 68 | 80 | 74 | 68 | 64 | 64 | 60 | 57 | | 55 | 52 | 50 | | 46 | 44 | 43 | 39 |
| 4 | 81 | 72 | 65 | 60 | 75 | 67 | 62 | 57 | 59 | 55 | 51 | | 51 | 48 | 46 | | 43 | 42 | 40 | 37 |
| 5 | 76 | 66 | 59 | 54 | 70 | 62 | 56 | 52 | 55 | 50 | 47 | | 48 | 44 | 42 | | 41 | 39 | 37 | 34 |
| 6 | 71 | 61 | 54 | 49 | 66 | 57 | 51 | 47 | 51 | 46 | 43 | | 45 | 41 | 39 | | 39 | 37 | 35 | 32 |
| 7 | 67 | 56 | 50 | 45 | 62 | 53 | 47 | 43 | 47 | 43 | 40 | | 42 | 39 | 36 | | 37 | 34 | 33 | 30 |
| 8 | 63 | 52 | 46 | 41 | 59 | 50 | 44 | 40 | 45 | 40 | 37 | | 40 | 36 | 34 | | 35 | 33 | 31 | 29 |
| 9 | 59 | 49 | 43 | 38 | 56 | 47 | 41 | 37 | 42 | 37 | 34 | | 38 | 34 | 32 | | 33 | 31 | 29 | 27 |
| 10 | 56 | 46 | 40 | 36 | 53 | 44 | 38 | 35 | 40 | 35 | 32 | | 36 | 32 | 30 | | 32 | 29 | 28 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 443649 |
| 5° | 443406 |
| 10° | 416069 |
| 15° | 357868 |
| 20° | 307327 |
| 25° | 189253 |
| 30° | 94470 |
| 35° | 66227 |
| 40° | 46058 |
| 45° | 29553 |
| 50° | 24050 |
| 55° | 24467 |
| 60° | 24910 |
| 65° | 24075 |
| 70° | 21542 |
| 75° | 20334 |
| 80° | 22225 |
| 85° | 22140 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 187.8 | 6.9 |
| 10°-20° | 441.1 | 16.2 |
| 20°-30° | 358.1 | 13.1 |
| 30°-40° | 158.3 | 5.8 |
| 40°-50° | 79.4 | 2.9 |
| 50°-60° | 57.1 | 2.1 |
| 60°-70° | 45.2 | 1.7 |
| 70°-80° | 25.8 | 0.9 |
| 80°-90° | 9.6 | 0.4 |
| 90°-100° | 9.6 | 0.4 |
| 100°-110° | 25.8 | 0.9 |
| 110°-120° | 45.2 | 1.7 |
| 120°-130° | 57.1 | 2.1 |
| 130°-140° | 79.4 | 2.9 |
| 140°-150° | 158.3 | 5.8 |
| 150°-160° | 358.1 | 13.1 |
| 160°-170° | 441.1 | 16.2 |
| 170°-180° | 187.8 | 6.9 |
| 0°-30° | 987.0 | 36.2 |
| 0°-40° | 1145.4 | 42.0 |
| 0°-60° | 1281.8 | 47.0 |
| 0°-90° | 1362.4 | 50.0 |
| 90°-120° | 80.5 | 3.0 |
| 90°-150° | 375.3 | 13.8 |
| 90°-180° | 1362.0 | 50.0 |
| 0°-180° | 2724.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 2023 | |
| 5° | 2014 | 188 |
| 15° | 1576 | 441 |
| 25° | 782 | 358 |
| 35° | 247 | 158 |
| 45° | 95 | 79 |
| 55° | 64 | 57 |
| 65° | 46 | 45 |
| 75° | 24 | 26 |
| 85° | 9 | 9 |
| 90° | 0 | 1 |
| 95° | 9 | 9 |
| 105° | 24 | 26 |
| 115° | 46 | 45 |
| 125° | 64 | 57 |
| 135° | 95 | 79 |
| 145° | 247 | 158 |
| 155° | 782 | 358 |
| 165° | 1576 | 441 |
| 175° | 2014 | 188 |
| 180° | 2023 | |



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CATALOG NUMBER: 9003-W2-[RW, RI]-LED3597-W-WT-L2-UNV

CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 2023.2 |
| 1° | 2017.6 |
| 2° | 2016.0 |
| 3° | 2019.2 |
| 4° | 2019.2 |
| 5° | 2014.4 |
| 6° | 2003.9 |
| 7° | 1983.1 |
| 8° | 1952.7 |
| 9° | 1913.5 |
| 10° | 1868.6 |
| 11° | 1816.6 |
| 12° | 1759.0 |
| 13° | 1696.5 |
| 14° | 1634.9 |
| 15° | 1576.4 |
| 16° | 1526.0 |
| 17° | 1473.1 |
| 18° | 1420.3 |
| 19° | 1367.5 |
| 20° | 1317.0 |
| 21° | 1258.6 |
| 22° | 1166.5 |
| 23° | 1048.0 |
| 24° | 918.3 |
| 25° | 782.2 |
| 26° | 654.1 |
| 27° | 540.4 |
| 28° | 454.0 |
| 29° | 404.3 |
| 30° | 373.1 |
| 32.5° | 305.8 |
| 35° | 247.4 |
| 37.5° | 204.2 |
| 40° | 160.9 |
| 42.5° | 127.3 |
| 45° | 95.3 |
| 47.5° | 76.9 |
| 50° | 70.5 |
| 52.5° | 67.3 |
| 55° | 64.0 |
| 57.5° | 60.0 |
| 60° | 56.8 |
| 62.5° | 52.0 |
| 65° | 46.4 |



TEST NUMBER: P221480

CATALOG NUMBER: 9003-W2-[RW, RI]-LED3597-W-WT-L2-UNV

CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|--------|
| 67.5° | 39.2 |
| 70° | 33.6 |
| 72.5° | 27.2 |
| 75° | 24.0 |
| 77.5° | 20.8 |
| 80° | 17.6 |
| 82.5° | 13.6 |
| 85° | 8.8 |
| 87.5° | 4.0 |
| 90° | 0.0 |
| 92.5° | 4.0 |
| 95° | 8.8 |
| 97.5° | 13.6 |
| 100° | 17.6 |
| 102.5° | 20.8 |
| 105° | 24.0 |
| 107.5° | 27.2 |
| 110° | 33.6 |
| 112.5° | 39.2 |
| 115° | 46.4 |
| 117.5° | 52.0 |
| 120° | 56.8 |
| 122.5° | 60.0 |
| 125° | 64.0 |
| 127.5° | 67.3 |
| 130° | 70.5 |
| 132.5° | 76.9 |
| 135° | 95.3 |
| 137.5° | 127.3 |
| 140° | 160.9 |
| 142.5° | 204.2 |
| 145° | 247.4 |
| 147.5° | 305.8 |
| 150° | 373.1 |
| 151° | 404.3 |
| 152° | 454.0 |
| 153° | 540.4 |
| 154° | 654.1 |
| 155° | 782.2 |
| 156° | 918.3 |
| 157° | 1048.0 |
| 158° | 1166.5 |
| 159° | 1258.6 |
| 160° | 1317.0 |
| 161° | 1367.5 |



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CATALOG NUMBER: 9003-W2-[RW, RI]-LED3597-W-WT-L2-UNV

CANDELA DISTRIBUTION (continued):

| | 0° |
|------|--------|
| 162° | 1420.3 |
| 163° | 1473.1 |
| 164° | 1526.0 |
| 165° | 1576.4 |
| 166° | 1634.9 |
| 167° | 1696.5 |
| 168° | 1759.0 |
| 169° | 1816.6 |
| 170° | 1868.6 |
| 171° | 1913.5 |
| 172° | 1952.7 |
| 173° | 1983.1 |
| 174° | 2003.9 |
| 175° | 2014.4 |
| 176° | 2019.2 |
| 177° | 2019.2 |
| 178° | 2016.0 |
| 179° | 2017.6 |
| 180° | 2023.2 |

(END OF REPORT)