

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: P220700

Luminaire Tested: **9003-W1-FL-LED4097-W-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29479)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9003-W1-FL-LED4097-W-BK-L1-UNV
Description: LUMIERE LANTERRA 9003 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 700.6 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.76
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

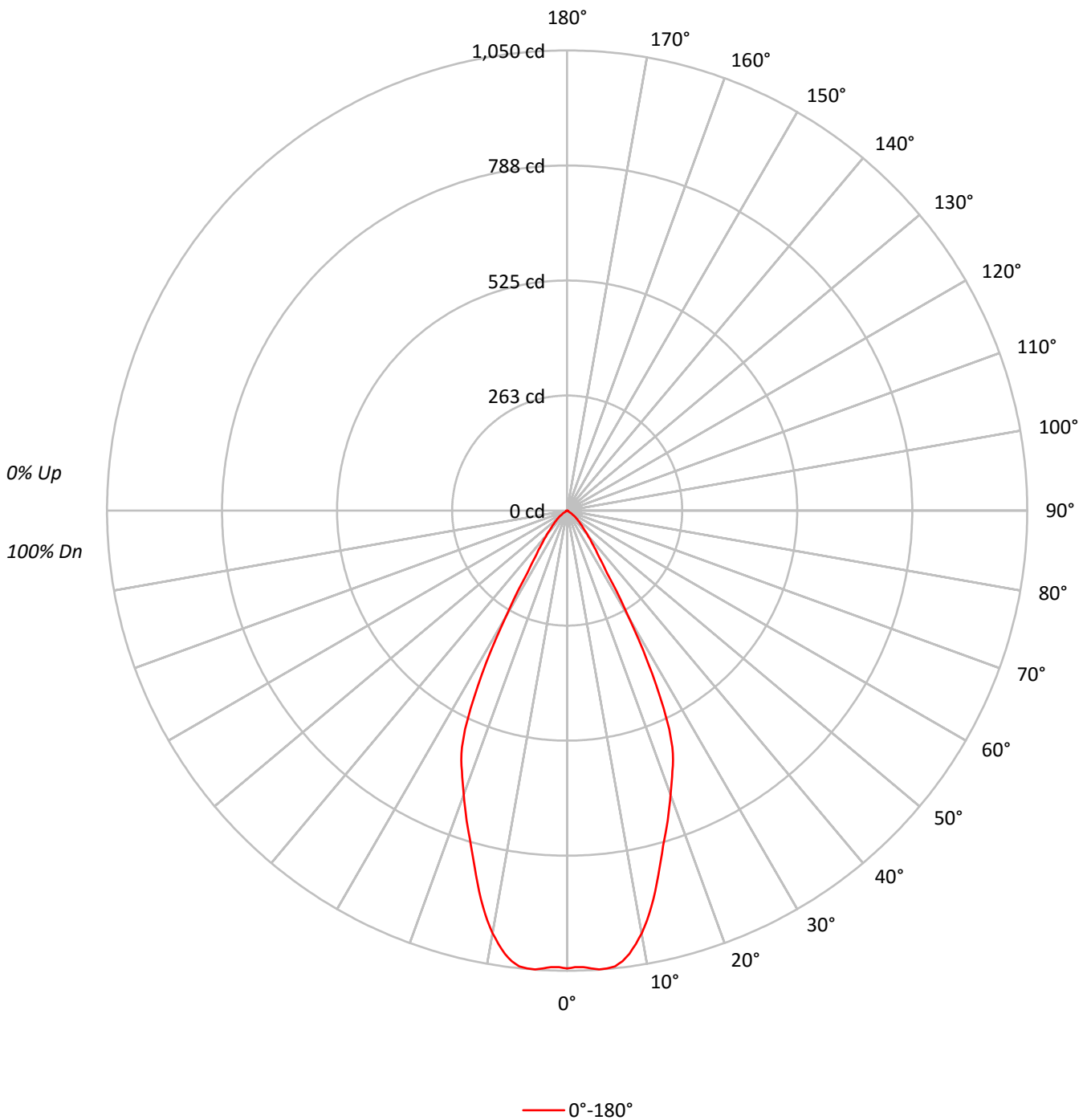
Input Watts (W): 9.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | | 106 | 106 | 106 | | 102 | 102 | 102 | 100 |
| 1 | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | | 101 | 100 | 99 | | 98 | 97 | 96 | 94 |
| 2 | 109 | 104 | 100 | 97 | 106 | 102 | 99 | 96 | 99 | 96 | 94 | | 96 | 94 | 92 | | 93 | 92 | 90 | 88 |
| 3 | 104 | 98 | 93 | 89 | 102 | 96 | 92 | 88 | 94 | 90 | 87 | | 91 | 88 | 86 | | 89 | 86 | 84 | 83 |
| 4 | 99 | 92 | 87 | 83 | 97 | 91 | 86 | 82 | 88 | 84 | 81 | | 87 | 83 | 80 | | 85 | 82 | 79 | 78 |
| 5 | 94 | 86 | 81 | 77 | 93 | 86 | 80 | 77 | 84 | 79 | 76 | | 82 | 78 | 75 | | 81 | 77 | 75 | 73 |
| 6 | 90 | 82 | 76 | 72 | 89 | 81 | 76 | 72 | 79 | 75 | 71 | | 78 | 74 | 71 | | 77 | 73 | 70 | 69 |
| 7 | 86 | 77 | 72 | 68 | 85 | 77 | 71 | 68 | 75 | 71 | 67 | | 74 | 70 | 67 | | 73 | 69 | 67 | 65 |
| 8 | 82 | 73 | 68 | 64 | 81 | 73 | 68 | 64 | 72 | 67 | 64 | | 71 | 66 | 63 | | 70 | 66 | 63 | 62 |
| 9 | 79 | 70 | 64 | 61 | 78 | 69 | 64 | 60 | 68 | 64 | 60 | | 68 | 63 | 60 | | 67 | 63 | 60 | 59 |
| 10 | 75 | 66 | 61 | 57 | 75 | 66 | 61 | 57 | 65 | 60 | 57 | | 64 | 60 | 57 | | 64 | 60 | 57 | 56 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 229104 |
| 5° | 230838 |
| 10° | 218099 |
| 15° | 187606 |
| 20° | 161037 |
| 25° | 133266 |
| 30° | 71100 |
| 35° | 32337 |
| 40° | 20667 |
| 45° | 13614 |
| 50° | 9518 |
| 55° | 4779 |
| 60° | 1140 |
| 65° | 1090 |
| 70° | 1090 |
| 75° | 763 |
| 80° | 505 |
| 85° | 1006 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 98.0 | 14.0 |
| 10°-20° | 231.1 | 33.0 |
| 20°-30° | 236.2 | 33.7 |
| 30°-40° | 85.5 | 12.2 |
| 40°-50° | 35.2 | 5.0 |
| 50°-60° | 11.4 | 1.6 |
| 60°-70° | 2.0 | 0.3 |
| 70°-80° | 1.0 | 0.1 |
| 80°-90° | 0.3 | 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° | 565.3 | 80.7 |
| 0°-40° | 650.8 | 92.9 |
| 0°-60° | 697.4 | 99.5 |
| 0°-90° | 700.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 700.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1045 | |
| 5° | 1049 | 98 |
| 15° | 826 | 231 |
| 25° | 551 | 236 |
| 35° | 121 | 86 |
| 45° | 44 | 35 |
| 55° | 12 | 11 |
| 65° | 2 | 2 |
| 75° | 1 | 1 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1044.8 |
| 1° | 1041.8 |
| 2° | 1042.3 |
| 3° | 1046.1 |
| 4° | 1049.6 |
| 5° | 1048.7 |
| 6° | 1045.7 |
| 7° | 1036.2 |
| 8° | 1021.2 |
| 9° | 1001.4 |
| 10° | 979.5 |
| 11° | 953.2 |
| 12° | 924.4 |
| 13° | 892.2 |
| 14° | 858.7 |
| 15° | 826.4 |
| 16° | 795.4 |
| 17° | 768.4 |
| 18° | 743.4 |
| 19° | 715.9 |
| 20° | 690.1 |
| 21° | 665.6 |
| 22° | 641.5 |
| 23° | 618.3 |
| 24° | 590.8 |
| 25° | 550.8 |
| 26° | 501.8 |
| 27° | 448.5 |
| 28° | 392.1 |
| 29° | 335.4 |
| 30° | 280.8 |
| 32.5° | 168.5 |
| 35° | 120.8 |
| 37.5° | 93.3 |
| 40° | 72.2 |
| 42.5° | 55.0 |
| 45° | 43.9 |
| 47.5° | 35.3 |
| 50° | 27.9 |
| 52.5° | 20.6 |
| 55° | 12.5 |
| 57.5° | 3.4 |
| 60° | 2.6 |
| 62.5° | 2.1 |
| 65° | 2.1 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 67.5° | 1.7 |
| 70° | 1.7 |
| 72.5° | 1.3 |
| 75° | 0.9 |
| 77.5° | 0.4 |
| 80° | 0.4 |
| 82.5° | 0.4 |
| 85° | 0.4 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)