

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: P220657

Luminaire Tested: **9003-W1-FL-LED4097-S-BK-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220657
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-W1-FL-LED4097-S-BK-L2-UNV
Description: LUMIERE LANTERRA 9003 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC,
BLACK HOUSING.
Light Source: (1) 4000K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1347.8 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

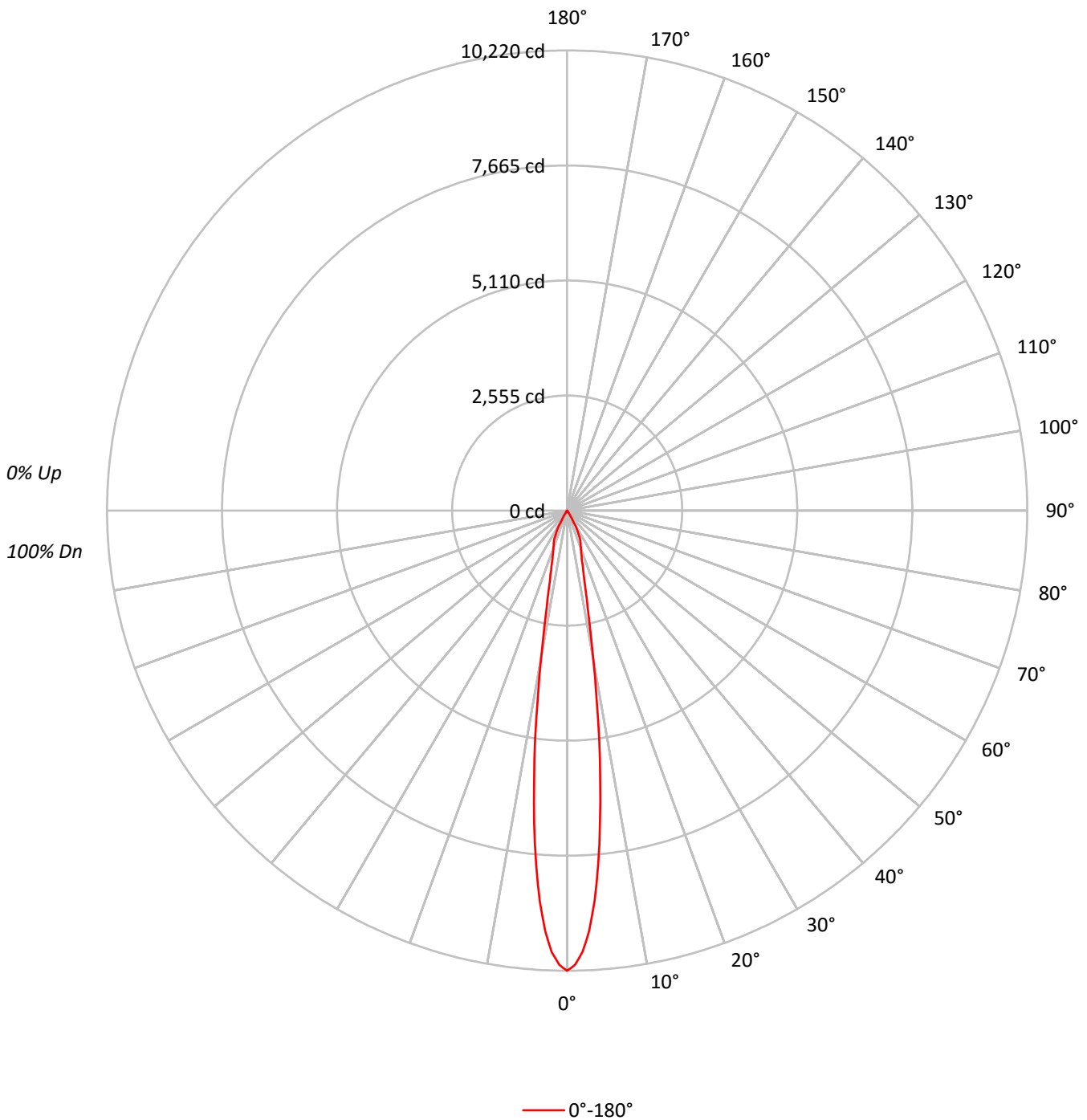
Input Watts (W): 20.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 115 | 113 | 111 | 110 | 113 | 111 | 109 | 108 | 107 | 106 | 104 | | 103 | 102 | 101 | | 100 | 99 | 99 | 97 |
| 2 | 111 | 108 | 105 | 103 | 109 | 106 | 104 | 101 | 103 | 101 | 99 | | 100 | 99 | 97 | | 98 | 96 | 95 | 94 |
| 3 | 108 | 104 | 100 | 97 | 106 | 102 | 99 | 97 | 100 | 97 | 95 | | 98 | 95 | 94 | | 95 | 94 | 92 | 91 |
| 4 | 105 | 100 | 96 | 93 | 103 | 99 | 95 | 92 | 97 | 94 | 91 | | 95 | 92 | 90 | | 93 | 91 | 89 | 88 |
| 5 | 102 | 96 | 92 | 89 | 101 | 95 | 92 | 89 | 94 | 91 | 88 | | 92 | 90 | 88 | | 91 | 89 | 87 | 86 |
| 6 | 99 | 93 | 89 | 86 | 98 | 93 | 89 | 86 | 91 | 88 | 86 | | 90 | 87 | 85 | | 89 | 86 | 85 | 83 |
| 7 | 97 | 90 | 86 | 84 | 96 | 90 | 86 | 83 | 89 | 85 | 83 | | 88 | 85 | 83 | | 87 | 84 | 82 | 81 |
| 8 | 94 | 88 | 84 | 81 | 93 | 87 | 84 | 81 | 87 | 83 | 81 | | 86 | 83 | 81 | | 85 | 82 | 80 | 79 |
| 9 | 92 | 86 | 82 | 79 | 91 | 85 | 81 | 79 | 84 | 81 | 79 | | 84 | 81 | 79 | | 83 | 80 | 78 | 77 |
| 10 | 90 | 83 | 80 | 77 | 89 | 83 | 79 | 77 | 82 | 79 | 77 | | 82 | 79 | 77 | | 81 | 78 | 76 | 76 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 2240983 |
| 5° | 1739903 |
| 10° | 743273 |
| 15° | 314281 |
| 20° | 208338 |
| 25° | 156154 |
| 30° | 59832 |
| 35° | 9128 |
| 40° | 4981 |
| 45° | 2202 |
| 50° | 1637 |
| 55° | 1529 |
| 60° | 1754 |
| 65° | 1660 |
| 70° | 1539 |
| 75° | 1356 |
| 80° | 1010 |
| 85° | 2013 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 597.4 | 44.3 |
| 10°-20° | 423.3 | 31.4 |
| 20°-30° | 272.8 | 20.2 |
| 30°-40° | 39.3 | 2.9 |
| 40°-50° | 6.2 | 0.5 |
| 50°-60° | 3.8 | 0.3 |
| 60°-70° | 3.0 | 0.2 |
| 70°-80° | 1.5 | 0.1 |
| 80°-90° | 0.5 | 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° | 1293.5 | 96.0 |
| 0°-40° | 1332.8 | 98.9 |
| 0°-60° | 1342.8 | 99.6 |
| 0°-90° | 1347.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1347.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 10220 | |
| 5° | 7904 | 597 |
| 15° | 1384 | 423 |
| 25° | 645 | 273 |
| 35° | 34 | 39 |
| 45° | 7 | 6 |
| 55° | 4 | 4 |
| 65° | 3 | 3 |
| 75° | 2 | 1 |
| 85° | 1 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|---------|
| 0° | 10219.7 |
| 1° | 10092.0 |
| 2° | 9809.8 |
| 3° | 9345.9 |
| 4° | 8700.5 |
| 5° | 7904.4 |
| 6° | 6989.4 |
| 7° | 6034.0 |
| 8° | 5088.8 |
| 9° | 4154.8 |
| 10° | 3338.1 |
| 11° | 2671.3 |
| 12° | 2190.8 |
| 13° | 1839.5 |
| 14° | 1578.7 |
| 15° | 1384.4 |
| 16° | 1224.2 |
| 17° | 1107.7 |
| 18° | 1024.4 |
| 19° | 951.5 |
| 20° | 892.8 |
| 21° | 842.1 |
| 22° | 797.7 |
| 23° | 756.4 |
| 24° | 708.9 |
| 25° | 645.4 |
| 26° | 570.9 |
| 27° | 490.8 |
| 28° | 403.6 |
| 29° | 317.2 |
| 30° | 236.3 |
| 32.5° | 78.5 |
| 35° | 34.1 |
| 37.5° | 24.6 |
| 40° | 17.4 |
| 42.5° | 8.7 |
| 45° | 7.1 |
| 47.5° | 5.6 |
| 50° | 4.8 |
| 52.5° | 4.8 |
| 55° | 4.0 |
| 57.5° | 4.0 |
| 60° | 4.0 |
| 62.5° | 3.2 |
| 65° | 3.2 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 67.5° | 2.4 |
| 70° | 2.4 |
| 72.5° | 1.6 |
| 75° | 1.6 |
| 77.5° | 0.8 |
| 80° | 0.8 |
| 82.5° | 0.8 |
| 85° | 0.8 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)