

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: P221137

Luminaire Tested: **9002-W1-FL-LEDCR-F-WT-LC1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221137
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29548)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W1-FL-LEDCR-F-WT-LC1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) COLOR CHAGING MODULE, SET TO 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

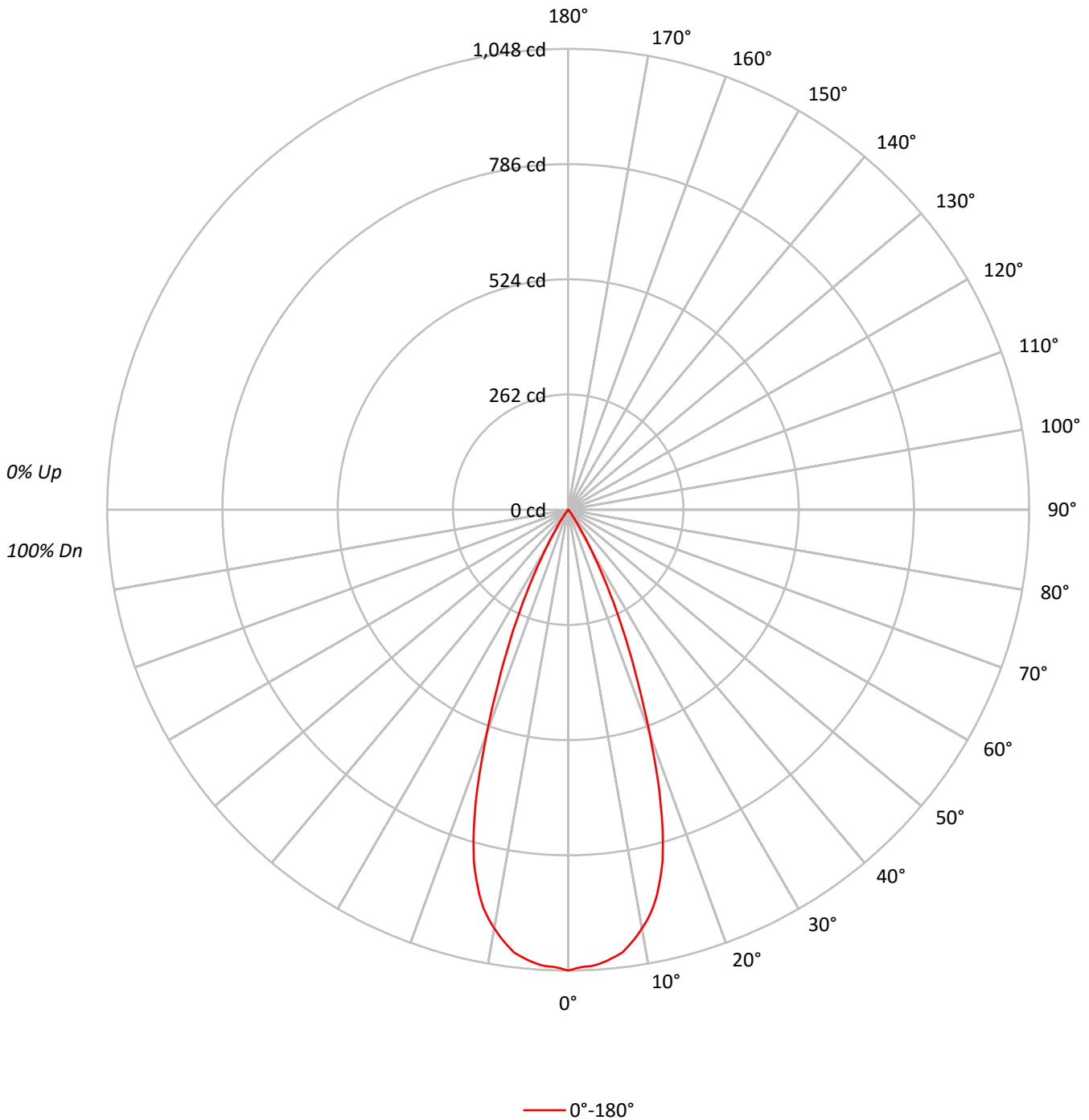
Lumens per Lamp: N/A
Luminaire Lumens: 466.6 lumens
Efficiency: N/A
Efficacy: 34.6 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.62
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 13.5
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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | 100 |
| 1 | 115 | 112 | 110 | 108 | 112 | 110 | 108 | 107 | 106 | 105 | 103 | 103 | 101 | 100 | 99 | 98 | 97 | 96 | | | | 96 |
| 2 | 110 | 106 | 103 | 100 | 108 | 105 | 102 | 99 | 102 | 99 | 97 | 99 | 97 | 95 | 96 | 94 | 93 | 92 | | | | 92 |
| 3 | 106 | 101 | 97 | 94 | 104 | 100 | 96 | 93 | 97 | 94 | 92 | 95 | 93 | 90 | 93 | 91 | 89 | 88 | | | | 88 |
| 4 | 102 | 96 | 92 | 89 | 101 | 95 | 91 | 88 | 93 | 90 | 87 | 91 | 89 | 86 | 90 | 87 | 85 | 84 | | | | 84 |
| 5 | 99 | 92 | 88 | 84 | 97 | 91 | 87 | 84 | 90 | 86 | 83 | 88 | 85 | 82 | 87 | 84 | 82 | 81 | | | | 81 |
| 6 | 95 | 88 | 84 | 80 | 94 | 88 | 83 | 80 | 86 | 82 | 79 | 85 | 82 | 79 | 84 | 81 | 78 | 77 | | | | 77 |
| 7 | 92 | 85 | 80 | 77 | 91 | 84 | 80 | 77 | 83 | 79 | 76 | 82 | 78 | 76 | 81 | 78 | 75 | 74 | | | | 74 |
| 8 | 89 | 81 | 77 | 73 | 88 | 81 | 76 | 73 | 80 | 76 | 73 | 79 | 75 | 73 | 78 | 75 | 72 | 71 | | | | 71 |
| 9 | 86 | 78 | 74 | 71 | 85 | 78 | 73 | 70 | 77 | 73 | 70 | 76 | 73 | 70 | 75 | 72 | 70 | 69 | | | | 69 |
| 10 | 83 | 75 | 71 | 68 | 82 | 75 | 71 | 68 | 74 | 70 | 68 | 74 | 70 | 67 | 73 | 70 | 67 | 66 | | | | 66 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 517062 |
| 5° | 509627 |
| 10° | 484458 |
| 15° | 422929 |
| 20° | 284049 |
| 25° | 151339 |
| 30° | 56401 |
| 35° | 12046 |
| 40° | 1288 |
| 45° | 1395 |
| 50° | 768 |
| 55° | 860 |
| 60° | 987 |
| 65° | 1167 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 96.3 | 20.6 |
| 10°-20° | 220.3 | 47.2 |
| 20°-30° | 128.3 | 27.5 |
| 30°-40° | 18.7 | 4.0 |
| 40°-50° | 1.4 | 0.3 |
| 50°-60° | 0.9 | 0.2 |
| 60°-70° | 0.6 | 0.1 |
| 70°-80° | 0.0 | 0.0 |
| 80°-90° | 0.0 | 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° | 445.0 | 95.4 |
| 0°-40° | 463.7 | 99.4 |
| 0°-60° | 466.0 | 99.9 |
| 0°-90° | 466.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 466.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1048 | |
| 5° | 1029 | 96 |
| 15° | 828 | 220 |
| 25° | 278 | 128 |
| 35° | 20 | 19 |
| 45° | 2 | 1 |
| 55° | 1 | 1 |
| 65° | 1 | 1 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|------|
| 0° | 1048 |
| 1° | 1043 |
| 2° | 1040 |
| 3° | 1039 |
| 4° | 1035 |
| 5° | 1029 |
| 6° | 1022 |
| 7° | 1014 |
| 8° | 1000 |
| 9° | 984 |
| 10° | 967 |
| 11° | 948 |
| 12° | 926 |
| 13° | 898 |
| 14° | 865 |
| 15° | 828 |
| 16° | 781 |
| 17° | 728 |
| 18° | 669 |
| 19° | 605 |
| 20° | 541 |
| 21° | 480 |
| 22° | 423 |
| 23° | 372 |
| 24° | 323 |
| 25° | 278 |
| 26° | 235 |
| 27° | 195 |
| 28° | 158 |
| 29° | 125 |
| 30° | 99 |
| 32.5° | 51 |
| 35° | 20 |
| 37.5° | 5 |
| 40° | 2 |
| 42.5° | 2 |
| 45° | 2 |
| 47.5° | 2 |
| 50° | 1 |
| 52.5° | 1 |
| 55° | 1 |
| 57.5° | 1 |
| 60° | 1 |
| 62.5° | 1 |
| 65° | 1 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|----|
| 67.5° | 0 |
| 70° | 0 |
| 72.5° | 0 |
| 75° | 0 |
| 77.5° | 0 |
| 80° | 0 |
| 82.5° | 0 |
| 85° | 0 |
| 87.5° | 0 |
| 90° | 0 |

(END OF REPORT)