

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: P220920

Luminaire Tested: **9004-W1-FL-LED4080-S-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29496)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W1-FL-LED4080-S-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1171.0 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

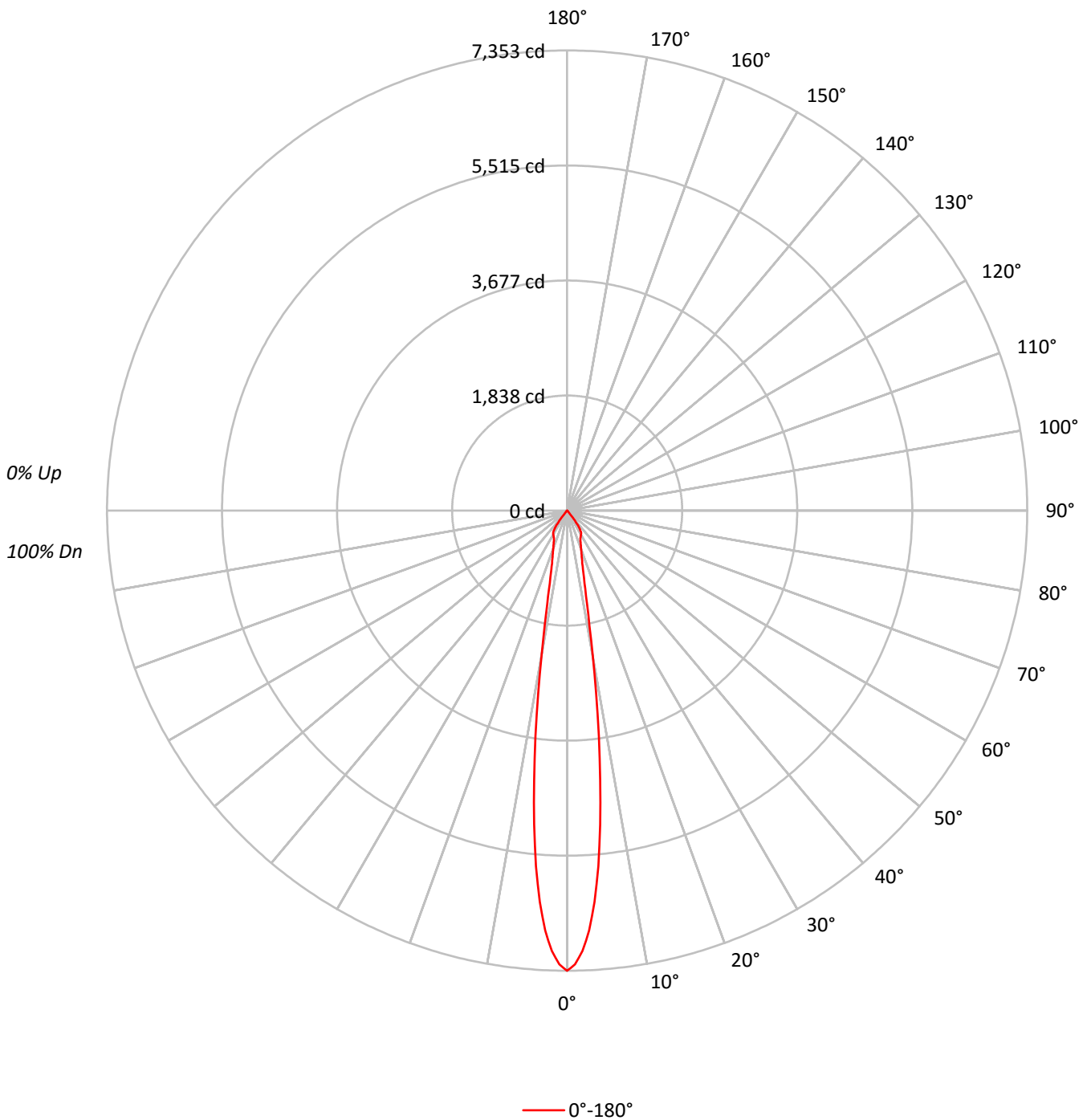
Input Watts (W): 9.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 112 | 110 | 108 | 112 | 110 | 108 | 107 | 106 | 105 | 104 | | 103 | 101 | 100 | | 99 | 98 | 98 | 96 |
| 2 | 110 | 106 | 103 | 100 | 108 | 105 | 102 | 99 | 102 | 99 | 97 | | 99 | 97 | 95 | | 96 | 95 | 93 | 92 |
| 3 | 106 | 101 | 97 | 94 | 104 | 100 | 96 | 93 | 97 | 94 | 92 | | 95 | 93 | 90 | | 93 | 91 | 89 | 88 |
| 4 | 102 | 97 | 92 | 89 | 101 | 95 | 91 | 88 | 93 | 90 | 87 | | 92 | 89 | 86 | | 90 | 87 | 85 | 84 |
| 5 | 99 | 92 | 88 | 84 | 97 | 91 | 87 | 84 | 90 | 86 | 83 | | 88 | 85 | 83 | | 87 | 84 | 82 | 81 |
| 6 | 95 | 89 | 84 | 81 | 94 | 88 | 83 | 80 | 86 | 83 | 80 | | 85 | 82 | 79 | | 84 | 81 | 79 | 78 |
| 7 | 92 | 85 | 80 | 77 | 91 | 85 | 80 | 77 | 83 | 79 | 77 | | 82 | 79 | 76 | | 81 | 78 | 76 | 75 |
| 8 | 89 | 82 | 77 | 74 | 88 | 82 | 77 | 74 | 81 | 77 | 74 | | 80 | 76 | 74 | | 79 | 76 | 73 | 72 |
| 9 | 87 | 79 | 75 | 72 | 86 | 79 | 74 | 71 | 78 | 74 | 71 | | 77 | 74 | 71 | | 76 | 73 | 71 | 70 |
| 10 | 84 | 77 | 72 | 69 | 83 | 76 | 72 | 69 | 76 | 72 | 69 | | 75 | 71 | 69 | | 74 | 71 | 69 | 68 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 906997 |
| 5° | 706016 |
| 10° | 294046 |
| 15° | 124326 |
| 20° | 85333 |
| 25° | 68103 |
| 30° | 62939 |
| 35° | 51497 |
| 40° | 10836 |
| 45° | 2477 |
| 50° | 883 |
| 55° | 710 |
| 60° | 419 |
| 65° | 233 |
| 70° | 144 |
| 75° | 191 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 428.5 | 36.6 |
| 10°-20° | 300.3 | 25.6 |
| 20°-30° | 236.7 | 20.2 |
| 30°-40° | 186.4 | 15.9 |
| 40°-50° | 15.1 | 1.3 |
| 50°-60° | 2.9 | 0.2 |
| 60°-70° | 0.7 | 0.1 |
| 70°-80° | 0.4 | 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° | 965.5 | 82.5 |
| 0°-40° | 1151.9 | 98.4 |
| 0°-60° | 1169.9 | 99.9 |
| 0°-90° | 1171.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1171.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 7353 | |
| 5° | 5702 | 429 |
| 15° | 974 | 300 |
| 25° | 500 | 237 |
| 35° | 342 | 186 |
| 45° | 14 | 15 |
| 55° | 3 | 3 |
| 65° | 1 | 1 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 7353.3 |
| 1° | 7252.1 |
| 2° | 7041.9 |
| 3° | 6715.8 |
| 4° | 6269.8 |
| 5° | 5702.1 |
| 6° | 5046.6 |
| 7° | 4338.4 |
| 8° | 3643.6 |
| 9° | 2944.3 |
| 10° | 2347.7 |
| 11° | 1871.6 |
| 12° | 1526.3 |
| 13° | 1281.7 |
| 14° | 1104.5 |
| 15° | 973.6 |
| 16° | 875.4 |
| 17° | 803.5 |
| 18° | 748.7 |
| 19° | 696.5 |
| 20° | 650.1 |
| 21° | 611.6 |
| 22° | 577.3 |
| 23° | 547.2 |
| 24° | 520.9 |
| 25° | 500.4 |
| 26° | 484.9 |
| 27° | 473.2 |
| 28° | 461.9 |
| 29° | 451.9 |
| 30° | 441.9 |
| 32.5° | 416.8 |
| 35° | 342.0 |
| 37.5° | 204.0 |
| 40° | 67.3 |
| 42.5° | 20.1 |
| 45° | 14.2 |
| 47.5° | 10.0 |
| 50° | 4.6 |
| 52.5° | 4.2 |
| 55° | 3.3 |
| 57.5° | 2.5 |
| 60° | 1.7 |
| 62.5° | 0.8 |
| 65° | 0.8 |



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)