

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: P220485

Luminaire Tested: **9003-W1-[RW, RI]-LED3090-W-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220485
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-W1-[RW, RI]-LED3090-W-WT-L1-UNV
Description: LUMIERE LANTERRA 9003 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 736.5 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.68
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

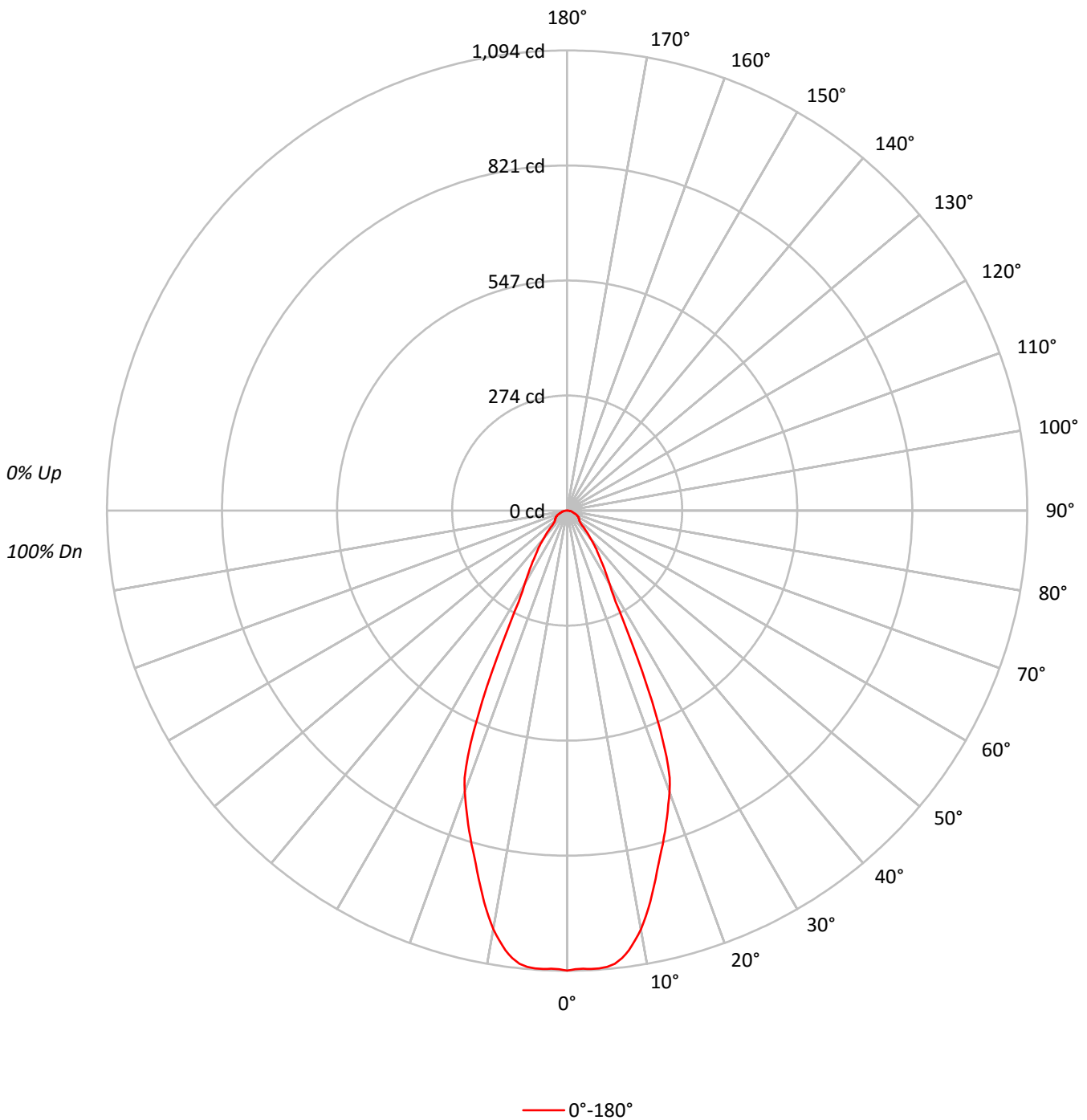
Input Watts (W): 9.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 113 | 110 | 107 | 104 | 110 | 107 | 105 | 103 | 103 | 101 | 100 | 100 | 98 | 97 | 96 | 95 | 94 | 92 |
| 2 | 107 | 101 | 97 | 93 | 104 | 100 | 96 | 92 | 96 | 93 | 90 | 93 | 91 | 88 | 91 | 88 | 86 | 85 |
| 3 | 101 | 94 | 89 | 85 | 99 | 93 | 88 | 84 | 90 | 86 | 83 | 88 | 84 | 81 | 85 | 83 | 80 | 78 |
| 4 | 96 | 88 | 82 | 78 | 94 | 87 | 82 | 77 | 85 | 80 | 76 | 83 | 79 | 76 | 81 | 77 | 75 | 73 |
| 5 | 91 | 83 | 77 | 72 | 90 | 82 | 76 | 72 | 80 | 75 | 71 | 78 | 74 | 71 | 77 | 73 | 70 | 68 |
| 6 | 87 | 78 | 72 | 67 | 85 | 77 | 71 | 67 | 76 | 70 | 67 | 74 | 70 | 66 | 73 | 69 | 66 | 64 |
| 7 | 83 | 74 | 67 | 63 | 82 | 73 | 67 | 63 | 72 | 66 | 63 | 70 | 66 | 62 | 69 | 65 | 62 | 61 |
| 8 | 79 | 70 | 64 | 60 | 78 | 69 | 63 | 59 | 68 | 63 | 59 | 67 | 62 | 59 | 66 | 62 | 59 | 57 |
| 9 | 76 | 66 | 60 | 56 | 75 | 66 | 60 | 56 | 65 | 60 | 56 | 64 | 59 | 56 | 63 | 59 | 56 | 54 |
| 10 | 73 | 63 | 57 | 54 | 72 | 63 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 53 | 60 | 56 | 53 | 52 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 239805 |
| 5° | 239687 |
| 10° | 224912 |
| 15° | 193440 |
| 20° | 166124 |
| 25° | 102296 |
| 30° | 51071 |
| 35° | 35790 |
| 40° | 24904 |
| 45° | 15971 |
| 50° | 12997 |
| 55° | 13228 |
| 60° | 13464 |
| 65° | 13023 |
| 70° | 11669 |
| 75° | 11014 |
| 80° | 11996 |
| 85° | 12077 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 101.5 | 13.8 |
| 10°-20° | 238.5 | 32.4 |
| 20°-30° | 193.5 | 26.3 |
| 30°-40° | 85.6 | 11.6 |
| 40°-50° | 42.9 | 5.8 |
| 50°-60° | 30.9 | 4.2 |
| 60°-70° | 24.4 | 3.3 |
| 70°-80° | 13.9 | 1.9 |
| 80°-90° | 5.2 | 0.7 |
| 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° | 533.5 | 72.4 |
| 0°-40° | 619.1 | 84.1 |
| 0°-60° | 692.9 | 94.1 |
| 0°-90° | 736.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 736.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1094 | |
| 5° | 1089 | 102 |
| 15° | 852 | 238 |
| 25° | 423 | 194 |
| 35° | 134 | 86 |
| 45° | 52 | 43 |
| 55° | 35 | 31 |
| 65° | 25 | 24 |
| 75° | 13 | 14 |
| 85° | 5 | 5 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1093.6 |
| 1° | 1090.6 |
| 2° | 1089.7 |
| 3° | 1091.4 |
| 4° | 1091.4 |
| 5° | 1088.9 |
| 6° | 1083.2 |
| 7° | 1072.0 |
| 8° | 1055.5 |
| 9° | 1034.3 |
| 10° | 1010.1 |
| 11° | 982.0 |
| 12° | 950.8 |
| 13° | 917.0 |
| 14° | 883.7 |
| 15° | 852.1 |
| 16° | 824.9 |
| 17° | 796.3 |
| 18° | 767.7 |
| 19° | 739.2 |
| 20° | 711.9 |
| 21° | 680.3 |
| 22° | 630.5 |
| 23° | 566.5 |
| 24° | 496.4 |
| 25° | 422.8 |
| 26° | 353.6 |
| 27° | 292.1 |
| 28° | 245.4 |
| 29° | 218.5 |
| 30° | 201.7 |
| 32.5° | 165.3 |
| 35° | 133.7 |
| 37.5° | 110.4 |
| 40° | 87.0 |
| 42.5° | 68.8 |
| 45° | 51.5 |
| 47.5° | 41.5 |
| 50° | 38.1 |
| 52.5° | 36.4 |
| 55° | 34.6 |
| 57.5° | 32.5 |
| 60° | 30.7 |
| 62.5° | 28.1 |
| 65° | 25.1 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|------|
| 67.5° | 21.2 |
| 70° | 18.2 |
| 72.5° | 14.7 |
| 75° | 13.0 |
| 77.5° | 11.3 |
| 80° | 9.5 |
| 82.5° | 7.4 |
| 85° | 4.8 |
| 87.5° | 2.2 |
| 90° | 0.0 |

(END OF REPORT)