

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: P220393

Luminaire Tested: **9002-W1-FL-LED2790-W-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29420)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W1-FL-LED2790-W-WT-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 2700K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 731.3 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

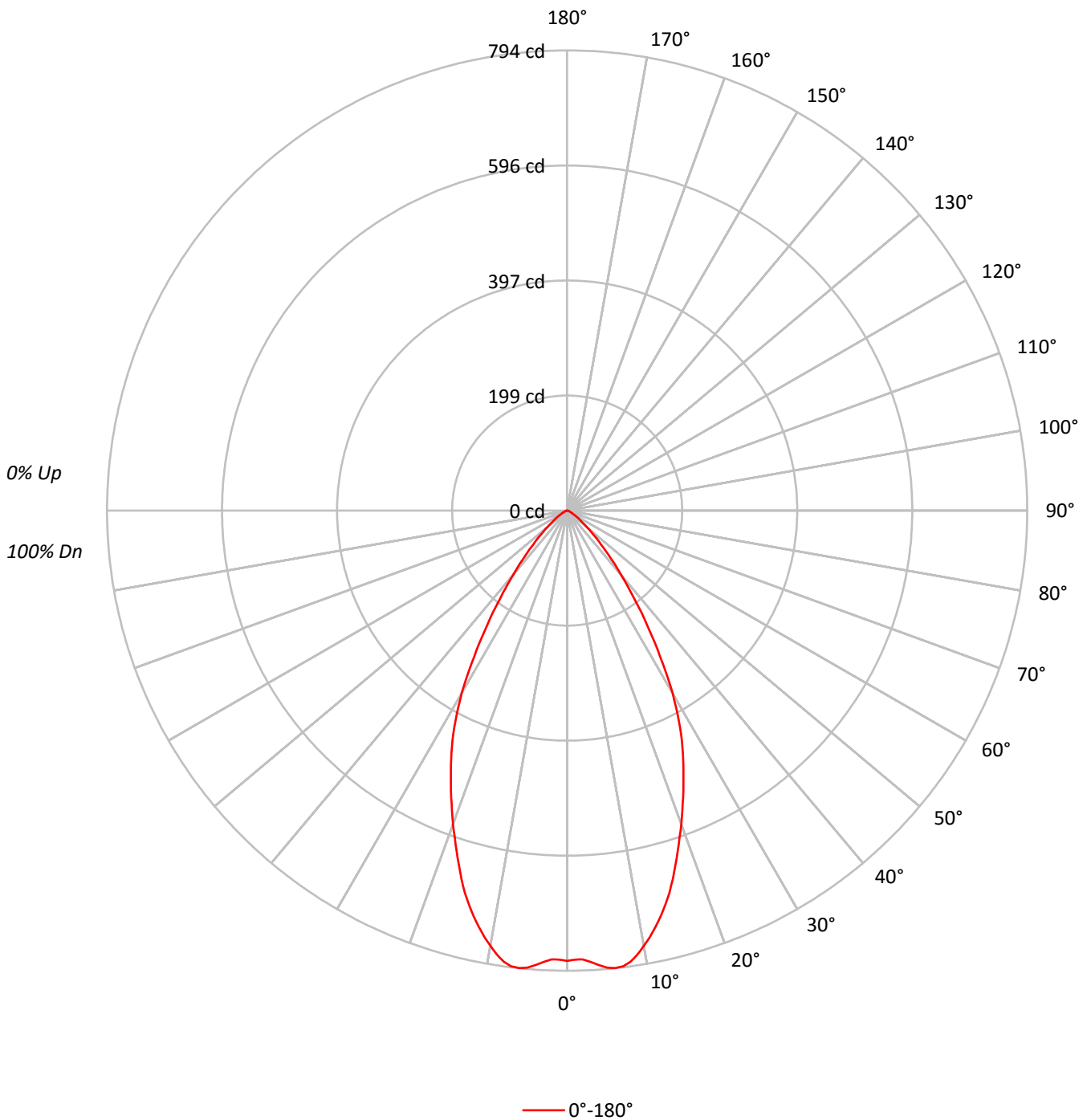
Input Watts (W): 10
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 100 | 100 | 99 | 97 | 97 | 96 | 95 | 93 |
| 2 | 107 | 102 | 98 | 94 | 105 | 100 | 96 | 93 | 97 | 94 | 91 | 94 | 91 | 89 | 91 | 89 | 87 | 86 |
| 3 | 101 | 95 | 89 | 85 | 99 | 93 | 88 | 84 | 91 | 86 | 83 | 88 | 85 | 82 | 86 | 83 | 80 | 79 |
| 4 | 96 | 88 | 82 | 78 | 94 | 87 | 81 | 77 | 85 | 80 | 76 | 83 | 79 | 75 | 81 | 77 | 74 | 73 |
| 5 | 91 | 82 | 76 | 71 | 89 | 81 | 75 | 71 | 79 | 74 | 70 | 77 | 73 | 70 | 76 | 72 | 69 | 68 |
| 6 | 86 | 77 | 70 | 66 | 84 | 76 | 70 | 66 | 74 | 69 | 65 | 73 | 68 | 65 | 71 | 67 | 64 | 63 |
| 7 | 81 | 72 | 65 | 61 | 80 | 71 | 65 | 61 | 70 | 64 | 61 | 69 | 64 | 60 | 67 | 63 | 60 | 58 |
| 8 | 77 | 67 | 61 | 57 | 76 | 67 | 61 | 57 | 66 | 60 | 57 | 65 | 60 | 56 | 64 | 59 | 56 | 55 |
| 9 | 74 | 63 | 57 | 53 | 72 | 63 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 53 | 60 | 56 | 53 | 51 |
| 10 | 70 | 60 | 54 | 50 | 69 | 59 | 54 | 50 | 59 | 53 | 50 | 58 | 53 | 50 | 57 | 53 | 49 | 48 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 383405 |
| 5° | 392002 |
| 10° | 382106 |
| 15° | 348610 |
| 20° | 302268 |
| 25° | 257711 |
| 30° | 207145 |
| 35° | 144192 |
| 40° | 93647 |
| 45° | 57634 |
| 50° | 34847 |
| 55° | 20816 |
| 60° | 12729 |
| 65° | 8873 |
| 70° | 5482 |
| 75° | 4384 |
| 80° | 4262 |
| 85° | 4529 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 74.8 | 10.2 |
| 10°-20° | 188.9 | 25.8 |
| 20°-30° | 215.6 | 29.5 |
| 30°-40° | 151.2 | 20.7 |
| 40°-50° | 66.7 | 9.1 |
| 50°-60° | 23.1 | 3.2 |
| 60°-70° | 7.6 | 1.0 |
| 70°-80° | 2.7 | 0.4 |
| 80°-90° | 0.6 | 0.1 |
| 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° | 479.3 | 65.5 |
| 0°-40° | 630.5 | 86.2 |
| 0°-60° | 720.3 | 98.5 |
| 0°-90° | 731.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 731.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 777 | |
| 5° | 792 | 75 |
| 15° | 682 | 189 |
| 25° | 473 | 216 |
| 35° | 239 | 151 |
| 45° | 83 | 67 |
| 55° | 24 | 23 |
| 65° | 8 | 8 |
| 75° | 2 | 3 |
| 85° | 1 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|-------|
| 0° | 777.1 |
| 1° | 774.9 |
| 2° | 774.9 |
| 3° | 780.2 |
| 4° | 786.2 |
| 5° | 791.5 |
| 6° | 793.8 |
| 7° | 792.3 |
| 8° | 786.2 |
| 9° | 775.6 |
| 10° | 762.7 |
| 11° | 749.1 |
| 12° | 734.0 |
| 13° | 718.1 |
| 14° | 700.6 |
| 15° | 682.5 |
| 16° | 661.2 |
| 17° | 639.3 |
| 18° | 617.3 |
| 19° | 596.1 |
| 20° | 575.7 |
| 21° | 554.4 |
| 22° | 534.0 |
| 23° | 513.5 |
| 24° | 493.1 |
| 25° | 473.4 |
| 26° | 453.7 |
| 27° | 433.3 |
| 28° | 410.5 |
| 29° | 387.1 |
| 30° | 363.6 |
| 32.5° | 298.4 |
| 35° | 239.4 |
| 37.5° | 187.8 |
| 40° | 145.4 |
| 42.5° | 110.6 |
| 45° | 82.6 |
| 47.5° | 61.4 |
| 50° | 45.4 |
| 52.5° | 33.3 |
| 55° | 24.2 |
| 57.5° | 17.4 |
| 60° | 12.9 |
| 62.5° | 9.8 |
| 65° | 7.6 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 67.5° | 5.3 |
| 70° | 3.8 |
| 72.5° | 3.0 |
| 75° | 2.3 |
| 77.5° | 2.3 |
| 80° | 1.5 |
| 82.5° | 0.8 |
| 85° | 0.8 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)