

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: P221144

Luminaire Tested: **9002-W1-FL-LEDCR-W-BK-LC1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29549)
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-W-BK-LC1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) COLOR CHAGING MODULE, SET TO 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

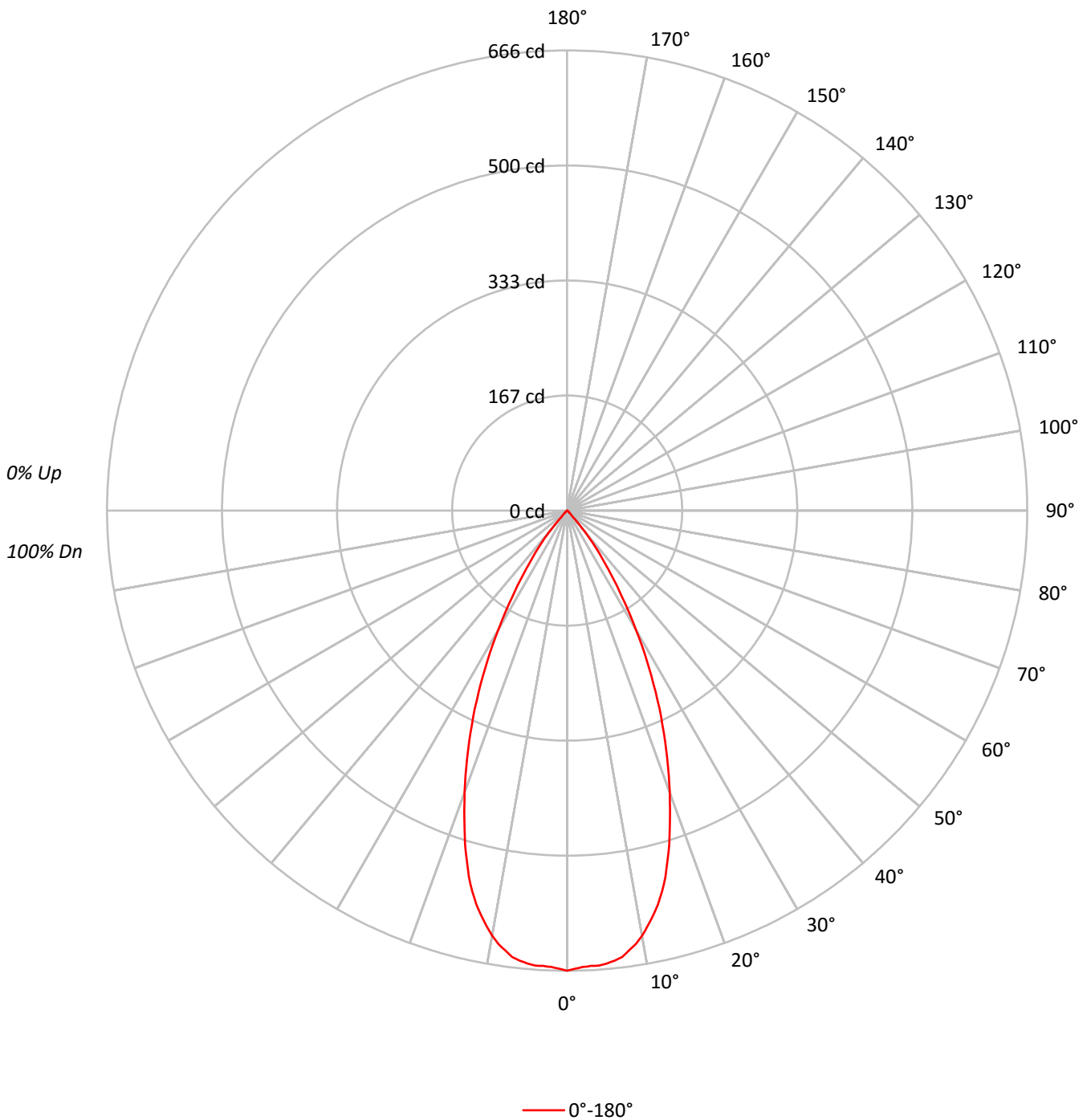
Lumens per Lamp: N/A
Luminaire Lumens: 433.9 lumens
Efficiency: N/A
Efficacy: 32.1 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.76
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 114 | 111 | 109 | 107 | 112 | 109 | 107 | 105 | 105 | 104 | 102 | 102 | 100 | 99 | 98 | 97 | 96 | 94 |
| 2 | 109 | 104 | 101 | 98 | 107 | 103 | 99 | 97 | 100 | 97 | 94 | 97 | 94 | 92 | 94 | 92 | 91 | 89 |
| 3 | 104 | 98 | 94 | 90 | 102 | 97 | 93 | 89 | 94 | 91 | 88 | 92 | 89 | 87 | 90 | 87 | 85 | 84 |
| 4 | 99 | 93 | 88 | 84 | 98 | 91 | 87 | 83 | 89 | 85 | 82 | 87 | 84 | 81 | 86 | 83 | 80 | 79 |
| 5 | 95 | 87 | 82 | 78 | 94 | 87 | 82 | 78 | 85 | 81 | 77 | 83 | 79 | 77 | 82 | 78 | 76 | 75 |
| 6 | 91 | 83 | 77 | 73 | 89 | 82 | 77 | 73 | 81 | 76 | 73 | 79 | 75 | 72 | 78 | 74 | 72 | 70 |
| 7 | 87 | 79 | 73 | 69 | 86 | 78 | 73 | 69 | 77 | 72 | 69 | 76 | 71 | 68 | 74 | 71 | 68 | 67 |
| 8 | 83 | 75 | 69 | 65 | 82 | 74 | 69 | 65 | 73 | 68 | 65 | 72 | 68 | 65 | 71 | 67 | 64 | 63 |
| 9 | 80 | 71 | 66 | 62 | 79 | 71 | 65 | 62 | 70 | 65 | 62 | 69 | 65 | 61 | 68 | 64 | 61 | 60 |
| 10 | 77 | 68 | 62 | 59 | 76 | 67 | 62 | 59 | 66 | 62 | 59 | 66 | 61 | 58 | 65 | 61 | 58 | 57 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 328591 |
| 5° | 325884 |
| 10° | 313119 |
| 15° | 280420 |
| 20° | 227869 |
| 25° | 172025 |
| 30° | 113371 |
| 35° | 62640 |
| 40° | 25118 |
| 45° | 3489 |
| 50° | 2303 |
| 55° | 2581 |
| 60° | 987 |
| 65° | 1167 |
| 70° | 1443 |
| 75° | 1906 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 61.8 | 14.2 |
| 10°-20° | 150.5 | 34.7 |
| 20°-30° | 142.9 | 32.9 |
| 30°-40° | 67.3 | 15.5 |
| 40°-50° | 7.8 | 1.8 |
| 50°-60° | 2.0 | 0.5 |
| 60°-70° | 1.0 | 0.2 |
| 70°-80° | 0.7 | 0.2 |
| 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° | 355.2 | 81.8 |
| 0°-40° | 422.5 | 97.4 |
| 0°-60° | 432.3 | 99.6 |
| 0°-90° | 433.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 433.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 666 | |
| 5° | 658 | 62 |
| 15° | 549 | 150 |
| 25° | 316 | 143 |
| 35° | 104 | 67 |
| 45° | 5 | 8 |
| 55° | 3 | 2 |
| 65° | 1 | 1 |
| 75° | 1 | 1 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|-----|
| 0° | 666 |
| 1° | 663 |
| 2° | 661 |
| 3° | 660 |
| 4° | 660 |
| 5° | 658 |
| 6° | 655 |
| 7° | 651 |
| 8° | 643 |
| 9° | 635 |
| 10° | 625 |
| 11° | 612 |
| 12° | 599 |
| 13° | 585 |
| 14° | 568 |
| 15° | 549 |
| 16° | 527 |
| 17° | 505 |
| 18° | 481 |
| 19° | 457 |
| 20° | 434 |
| 21° | 410 |
| 22° | 387 |
| 23° | 363 |
| 24° | 339 |
| 25° | 316 |
| 26° | 292 |
| 27° | 268 |
| 28° | 245 |
| 29° | 223 |
| 30° | 199 |
| 32.5° | 148 |
| 35° | 104 |
| 37.5° | 70 |
| 40° | 39 |
| 42.5° | 12 |
| 45° | 5 |
| 47.5° | 4 |
| 50° | 3 |
| 52.5° | 3 |
| 55° | 3 |
| 57.5° | 1 |
| 60° | 1 |
| 62.5° | 1 |
| 65° | 1 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|----|
| 67.5° | 1 |
| 70° | 1 |
| 72.5° | 1 |
| 75° | 1 |
| 77.5° | 0 |
| 80° | 0 |
| 82.5° | 0 |
| 85° | 0 |
| 87.5° | 0 |
| 90° | 0 |

(END OF REPORT)