

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: P220912

Luminaire Tested: **9004-W1-[RW, RI]-LED5080-W-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29494)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W1-[RW, RI]-LED5080-W-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 5000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2479.6 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.83
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

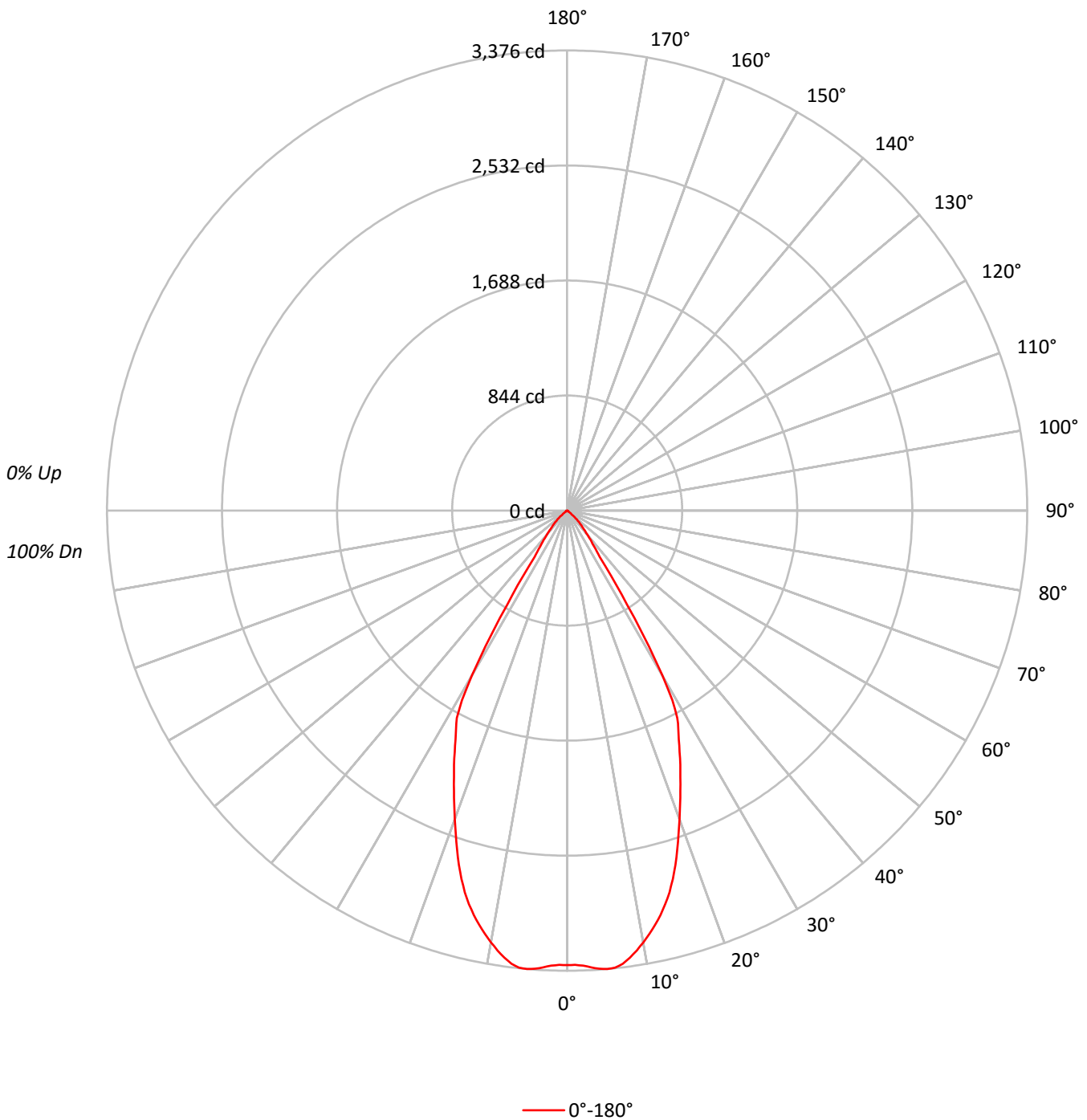
Input Watts (W): 28.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 94 |
| 2 | 109 | 104 | 100 | 97 | 107 | 102 | 99 | 96 | 99 | 96 | 94 | 96 | 94 | 92 | 94 | 92 | 90 | 89 |
| 3 | 104 | 98 | 93 | 89 | 102 | 96 | 92 | 89 | 94 | 90 | 87 | 91 | 88 | 86 | 89 | 87 | 85 | 83 |
| 4 | 99 | 92 | 87 | 83 | 97 | 91 | 86 | 82 | 89 | 85 | 81 | 87 | 83 | 80 | 85 | 82 | 80 | 78 |
| 5 | 94 | 87 | 81 | 77 | 93 | 86 | 81 | 77 | 84 | 80 | 76 | 82 | 79 | 76 | 81 | 78 | 75 | 73 |
| 6 | 90 | 82 | 76 | 72 | 89 | 81 | 76 | 72 | 80 | 75 | 72 | 78 | 74 | 71 | 77 | 73 | 71 | 69 |
| 7 | 86 | 77 | 72 | 68 | 85 | 77 | 71 | 68 | 75 | 71 | 67 | 74 | 70 | 67 | 73 | 69 | 67 | 65 |
| 8 | 82 | 73 | 68 | 64 | 81 | 73 | 67 | 64 | 72 | 67 | 64 | 71 | 66 | 63 | 70 | 66 | 63 | 62 |
| 9 | 79 | 70 | 64 | 60 | 78 | 69 | 64 | 60 | 68 | 63 | 60 | 67 | 63 | 60 | 67 | 63 | 60 | 58 |
| 10 | 75 | 66 | 61 | 57 | 74 | 66 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 57 | 64 | 60 | 57 | 55 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 411321 |
| 5° | 418030 |
| 10° | 402962 |
| 15° | 370372 |
| 20° | 316223 |
| 25° | 265661 |
| 30° | 198857 |
| 35° | 62414 |
| 40° | 36969 |
| 45° | 22467 |
| 50° | 9364 |
| 55° | 1570 |
| 60° | 1036 |
| 65° | 613 |
| 70° | 361 |
| 75° | 477 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 317.2 | 12.8 |
| 10°-20° | 800.0 | 32.3 |
| 20°-30° | 891.0 | 35.9 |
| 30°-40° | 355.5 | 14.3 |
| 40°-50° | 101.6 | 4.1 |
| 50°-60° | 11.3 | 0.5 |
| 60°-70° | 2.2 | 0.1 |
| 70°-80° | 0.9 | 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° | 2008.2 | 81.0 |
| 0°-40° | 2363.7 | 95.3 |
| 0°-60° | 2476.6 | 99.9 |
| 0°-90° | 2479.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2479.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 3335 | |
| 5° | 3376 | 317 |
| 15° | 2900 | 800 |
| 25° | 1952 | 891 |
| 35° | 414 | 356 |
| 45° | 129 | 102 |
| 55° | 7 | 11 |
| 65° | 2 | 2 |
| 75° | 1 | 1 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 3334.7 |
| 1° | 3333.6 |
| 2° | 3339.9 |
| 3° | 3355.4 |
| 4° | 3370.0 |
| 5° | 3376.2 |
| 6° | 3372.1 |
| 7° | 3350.2 |
| 8° | 3312.8 |
| 9° | 3267.1 |
| 10° | 3217.3 |
| 11° | 3163.3 |
| 12° | 3107.2 |
| 13° | 3044.8 |
| 14° | 2976.3 |
| 15° | 2900.4 |
| 16° | 2812.1 |
| 17° | 2717.6 |
| 18° | 2614.7 |
| 19° | 2509.8 |
| 20° | 2409.1 |
| 21° | 2311.4 |
| 22° | 2217.9 |
| 23° | 2126.5 |
| 24° | 2040.3 |
| 25° | 1952.0 |
| 26° | 1868.9 |
| 27° | 1797.2 |
| 28° | 1722.4 |
| 29° | 1590.5 |
| 30° | 1396.2 |
| 32.5° | 816.5 |
| 35° | 414.5 |
| 37.5° | 306.5 |
| 40° | 229.6 |
| 42.5° | 170.4 |
| 45° | 128.8 |
| 47.5° | 95.6 |
| 50° | 48.8 |
| 52.5° | 12.5 |
| 55° | 7.3 |
| 57.5° | 5.2 |
| 60° | 4.2 |
| 62.5° | 3.1 |
| 65° | 2.1 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 67.5° | 1.0 |
| 70° | 1.0 |
| 72.5° | 1.0 |
| 75° | 1.0 |
| 77.5° | 1.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)