

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: P220766

Luminaire Tested: **9004-W1-[RW, RI]-LED2797-F-WT-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29489)
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]-LED2797-F-WT-L1-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 2700K CCT, 97 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 788.9 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.57
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

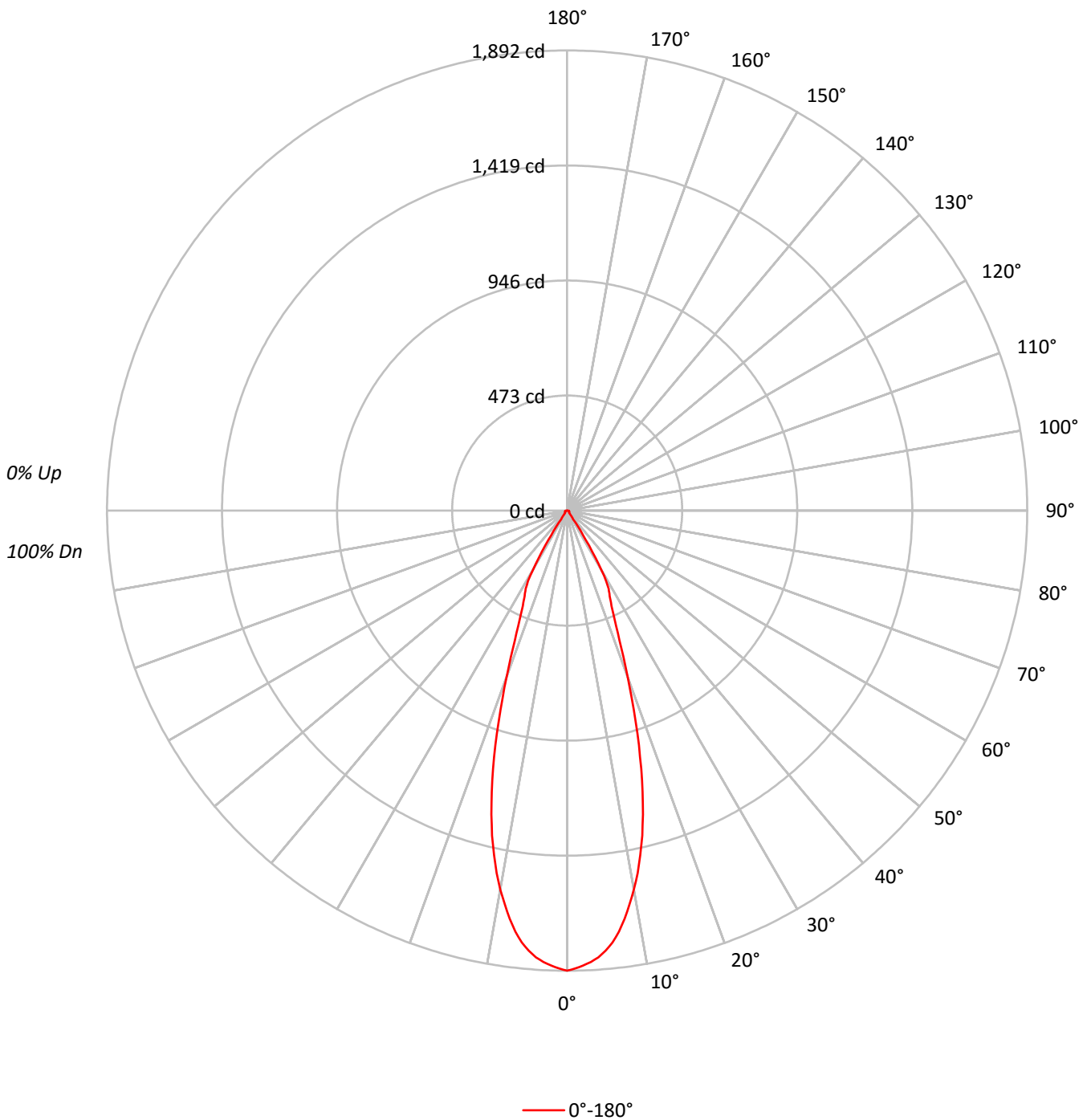
Input Watts (W): 9.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 233321 |
| 5° | 224975 |
| 10° | 198105 |
| 15° | 152968 |
| 20° | 95506 |
| 25° | 58794 |
| 30° | 40307 |
| 35° | 6339 |
| 40° | 2866 |
| 45° | 1936 |
| 50° | 2015 |
| 55° | 2193 |
| 60° | 2442 |
| 65° | 2743 |
| 70° | 3174 |
| 75° | 3908 |
| 80° | 4546 |
| 85° | 4529 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 165.9 | 21.0 |
| 10°-20° | 321.7 | 40.8 |
| 20°-30° | 208.3 | 26.4 |
| 30°-40° | 53.6 | 6.8 |
| 40°-50° | 9.1 | 1.2 |
| 50°-60° | 9.2 | 1.2 |
| 60°-70° | 9.3 | 1.2 |
| 70°-80° | 8.3 | 1.1 |
| 80°-90° | 3.5 | 0.4 |
| 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° | 695.9 | 88.2 |
| 0°-40° | 749.4 | 95.0 |
| 0°-60° | 767.8 | 97.3 |
| 0°-90° | 788.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 788.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1892 | |
| 5° | 1817 | 166 |
| 15° | 1198 | 322 |
| 25° | 432 | 208 |
| 35° | 42 | 54 |
| 45° | 11 | 9 |
| 55° | 10 | 9 |
| 65° | 9 | 9 |
| 75° | 8 | 8 |
| 85° | 3 | 4 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1891.6 |
| 1° | 1883.1 |
| 2° | 1872.0 |
| 3° | 1858.8 |
| 4° | 1841.9 |
| 5° | 1817.0 |
| 6° | 1785.5 |
| 7° | 1744.2 |
| 8° | 1694.8 |
| 9° | 1639.9 |
| 10° | 1581.7 |
| 11° | 1518.0 |
| 12° | 1447.8 |
| 13° | 1371.8 |
| 14° | 1288.5 |
| 15° | 1197.9 |
| 16° | 1104.4 |
| 17° | 1008.2 |
| 18° | 911.7 |
| 19° | 816.7 |
| 20° | 727.6 |
| 21° | 646.0 |
| 22° | 575.0 |
| 23° | 515.1 |
| 24° | 468.0 |
| 25° | 432.0 |
| 26° | 403.7 |
| 27° | 381.8 |
| 28° | 363.3 |
| 29° | 331.2 |
| 30° | 283.0 |
| 32.5° | 141.5 |
| 35° | 42.1 |
| 37.5° | 26.9 |
| 40° | 17.8 |
| 42.5° | 11.4 |
| 45° | 11.1 |
| 47.5° | 10.8 |
| 50° | 10.5 |
| 52.5° | 10.5 |
| 55° | 10.2 |
| 57.5° | 10.2 |
| 60° | 9.9 |
| 62.5° | 9.6 |
| 65° | 9.4 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 67.5° | 9.1 |
| 70° | 8.8 |
| 72.5° | 8.5 |
| 75° | 8.2 |
| 77.5° | 7.3 |
| 80° | 6.4 |
| 82.5° | 5.0 |
| 85° | 3.2 |
| 87.5° | 1.5 |
| 90° | 0.0 |

(END OF REPORT)