

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: P222128

Luminaire Tested: **9004-W2-FL-LED4080-W-WT-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222128
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29499)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED4080-W-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5580.4 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

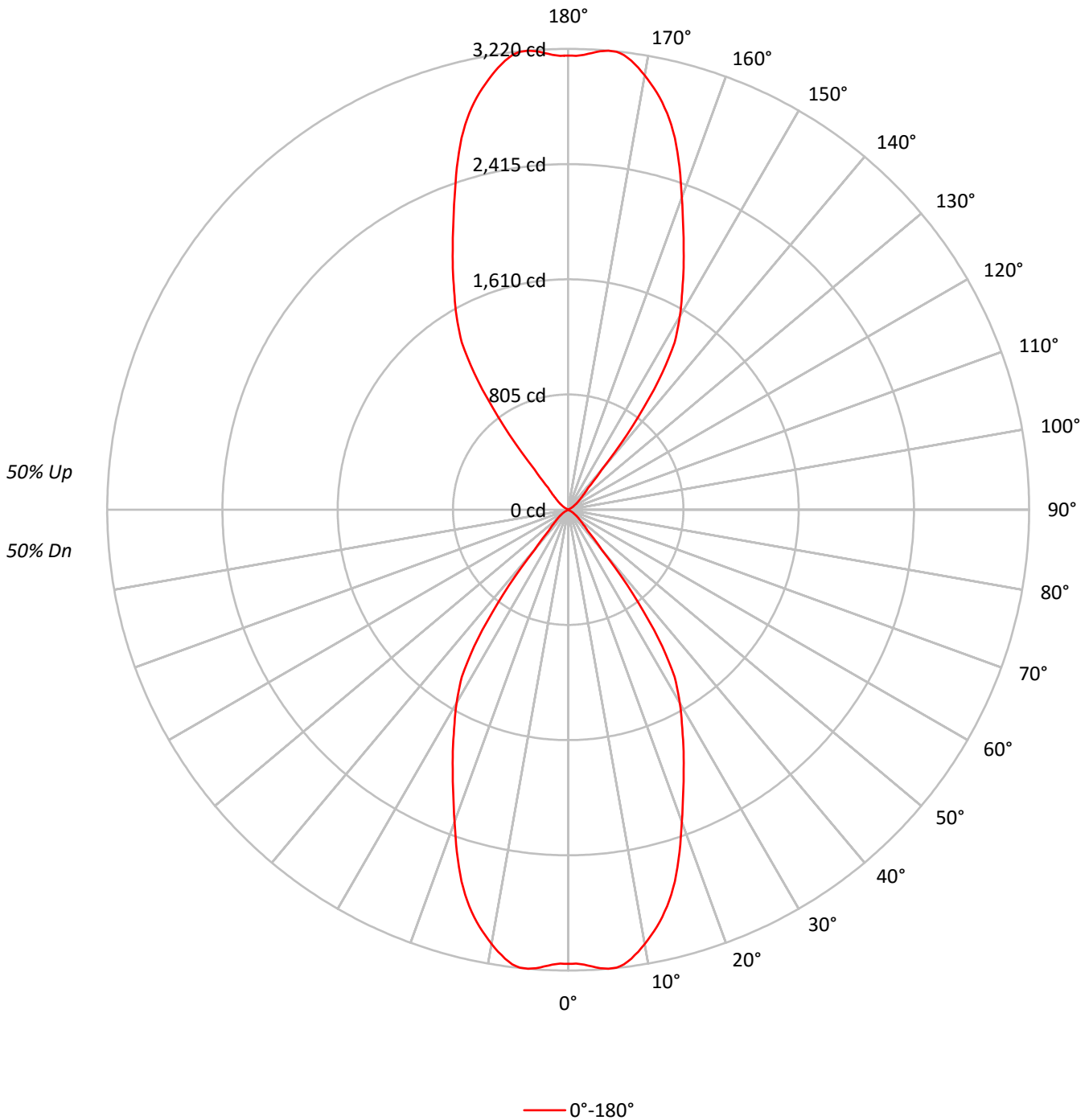
Input Watts (W): 57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | | 69 | 69 | 69 | | 56 | 56 | 56 | 50 |
| 1 | 100 | 97 | 94 | 91 | 92 | 90 | 87 | 85 | 76 | 75 | 73 | | 64 | 63 | 62 | | 53 | 53 | 52 | 47 |
| 2 | 93 | 88 | 83 | 79 | 86 | 81 | 77 | 74 | 70 | 67 | 65 | | 60 | 58 | 56 | | 50 | 49 | 48 | 43 |
| 3 | 87 | 80 | 74 | 69 | 81 | 74 | 69 | 65 | 65 | 61 | 58 | | 56 | 53 | 51 | | 47 | 46 | 44 | 40 |
| 4 | 81 | 73 | 66 | 61 | 76 | 68 | 63 | 58 | 60 | 56 | 52 | | 52 | 49 | 47 | | 44 | 42 | 41 | 38 |
| 5 | 76 | 67 | 60 | 55 | 71 | 63 | 57 | 53 | 55 | 51 | 48 | | 48 | 45 | 43 | | 42 | 40 | 38 | 35 |
| 6 | 71 | 61 | 55 | 50 | 66 | 58 | 52 | 48 | 51 | 47 | 43 | | 45 | 42 | 39 | | 39 | 37 | 35 | 33 |
| 7 | 67 | 57 | 50 | 45 | 62 | 54 | 48 | 44 | 48 | 43 | 40 | | 42 | 39 | 36 | | 37 | 35 | 33 | 31 |
| 8 | 63 | 52 | 46 | 41 | 59 | 50 | 44 | 40 | 45 | 40 | 37 | | 40 | 36 | 34 | | 35 | 33 | 31 | 29 |
| 9 | 59 | 49 | 42 | 38 | 56 | 46 | 41 | 37 | 42 | 37 | 34 | | 37 | 34 | 31 | | 33 | 31 | 29 | 27 |
| 10 | 56 | 46 | 39 | 35 | 52 | 43 | 38 | 34 | 39 | 35 | 32 | | 35 | 32 | 29 | | 31 | 29 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 391376 |
| 5° | 398690 |
| 10° | 386016 |
| 15° | 355508 |
| 20° | 304658 |
| 25° | 259809 |
| 30° | 222187 |
| 35° | 166087 |
| 40° | 58932 |
| 45° | 27561 |
| 50° | 18230 |
| 55° | 12258 |
| 60° | 6167 |
| 65° | 1459 |
| 70° | 1082 |
| 75° | 953 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 303.0 | 5.4 |
| 10°-20° | 768.4 | 13.8 |
| 20°-30° | 877.2 | 15.7 |
| 30°-40° | 644.0 | 11.5 |
| 40°-50° | 136.7 | 2.4 |
| 50°-60° | 51.7 | 0.9 |
| 60°-70° | 7.3 | 0.1 |
| 70°-80° | 2.0 | 0.0 |
| 80°-90° | 0.0 | 0.0 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 2.0 | 0.0 |
| 110°-120° | 7.3 | 0.1 |
| 120°-130° | 51.7 | 0.9 |
| 130°-140° | 136.7 | 2.4 |
| 140°-150° | 644.0 | 11.5 |
| 150°-160° | 877.2 | 15.7 |
| 160°-170° | 768.4 | 13.8 |
| 170°-180° | 303.0 | 5.4 |
| 0°-30° | 1948.6 | 34.9 |
| 0°-40° | 2592.5 | 46.5 |
| 0°-60° | 2780.9 | 49.8 |
| 0°-90° | 2790.2 | 50.0 |
| 90°-120° | 9.3 | 0.2 |
| 90°-150° | 841.6 | 15.1 |
| 90°-180° | 2790.0 | 50.0 |
| 0°-180° | 5580.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 3173 | |
| 5° | 3220 | 303 |
| 15° | 2784 | 768 |
| 25° | 1909 | 877 |
| 35° | 1103 | 644 |
| 45° | 158 | 137 |
| 55° | 57 | 52 |
| 65° | 5 | 7 |
| 75° | 2 | 2 |
| 85° | 0 | 0 |
| 90° | 0 | 0 |
| 95° | 0 | 0 |
| 105° | 2 | 2 |
| 115° | 5 | 7 |
| 125° | 57 | 52 |
| 135° | 158 | 137 |
| 145° | 1103 | 644 |
| 155° | 1909 | 877 |
| 165° | 2784 | 768 |
| 175° | 3220 | 303 |
| 180° | 3173 | |



TEST NUMBER: P222128

CATALOG NUMBER: 9004-W2-FL-LED4080-W-WT-L3-UNV

CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|------|
| 0° | 3173 |
| 1° | 3172 |
| 2° | 3180 |
| 3° | 3196 |
| 4° | 3211 |
| 5° | 3220 |
| 6° | 3218 |
| 7° | 3201 |
| 8° | 3168 |
| 9° | 3127 |
| 10° | 3082 |
| 11° | 3031 |
| 12° | 2979 |
| 13° | 2920 |
| 14° | 2856 |
| 15° | 2784 |
| 16° | 2702 |
| 17° | 2611 |
| 18° | 2517 |
| 19° | 2418 |
| 20° | 2321 |
| 21° | 2231 |
| 22° | 2144 |
| 23° | 2062 |
| 24° | 1984 |
| 25° | 1909 |
| 26° | 1836 |
| 27° | 1762 |
| 28° | 1691 |
| 29° | 1625 |
| 30° | 1560 |
| 32.5° | 1385 |
| 35° | 1103 |
| 37.5° | 745 |
| 40° | 366 |
| 42.5° | 206 |
| 45° | 158 |
| 47.5° | 124 |
| 50° | 95 |
| 52.5° | 75 |
| 55° | 57 |
| 57.5° | 41 |
| 60° | 25 |
| 62.5° | 7 |
| 65° | 5 |



TEST NUMBER: P222128

CATALOG NUMBER: 9004-W2-FL-LED4080-W-WT-L3-UNV

CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|------|
| 67.5° | 4 |
| 70° | 3 |
| 72.5° | 3 |
| 75° | 2 |
| 77.5° | 1 |
| 80° | 0 |
| 82.5° | 0 |
| 85° | 0 |
| 87.5° | 0 |
| 90° | 0 |
| 92.5° | 0 |
| 95° | 0 |
| 97.5° | 0 |
| 100° | 0 |
| 102.5° | 1 |
| 105° | 2 |
| 107.5° | 3 |
| 110° | 3 |
| 112.5° | 4 |
| 115° | 5 |
| 117.5° | 7 |
| 120° | 25 |
| 122.5° | 41 |
| 125° | 57 |
| 127.5° | 75 |
| 130° | 95 |
| 132.5° | 124 |
| 135° | 158 |
| 137.5° | 206 |
| 140° | 366 |
| 142.5° | 745 |
| 145° | 1103 |
| 147.5° | 1385 |
| 150° | 1560 |
| 151° | 1625 |
| 152° | 1691 |
| 153° | 1762 |
| 154° | 1836 |
| 155° | 1909 |
| 156° | 1984 |
| 157° | 2062 |
| 158° | 2144 |
| 159° | 2231 |
| 160° | 2321 |
| 161° | 2418 |



TEST NUMBER: P222128

CATALOG NUMBER: 9004-W2-FL-LED4080-W-WT-L3-UNV

CANDELA DISTRIBUTION (continued):

| | 0° |
|------|------|
| 162° | 2517 |
| 163° | 2611 |
| 164° | 2702 |
| 165° | 2784 |
| 166° | 2856 |
| 167° | 2920 |
| 168° | 2979 |
| 169° | 3031 |
| 170° | 3082 |
| 171° | 3127 |
| 172° | 3168 |
| 173° | 3201 |
| 174° | 3218 |
| 175° | 3220 |
| 176° | 3211 |
| 177° | 3196 |
| 178° | 3180 |
| 179° | 3172 |
| 180° | 3173 |

(END OF REPORT)