

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: P222025

Luminaire Tested: **9004-W2-FL-LED3090-S-WT-L2-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P222025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29496)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-FL-LED3090-S-WT-L2-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3451.2 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

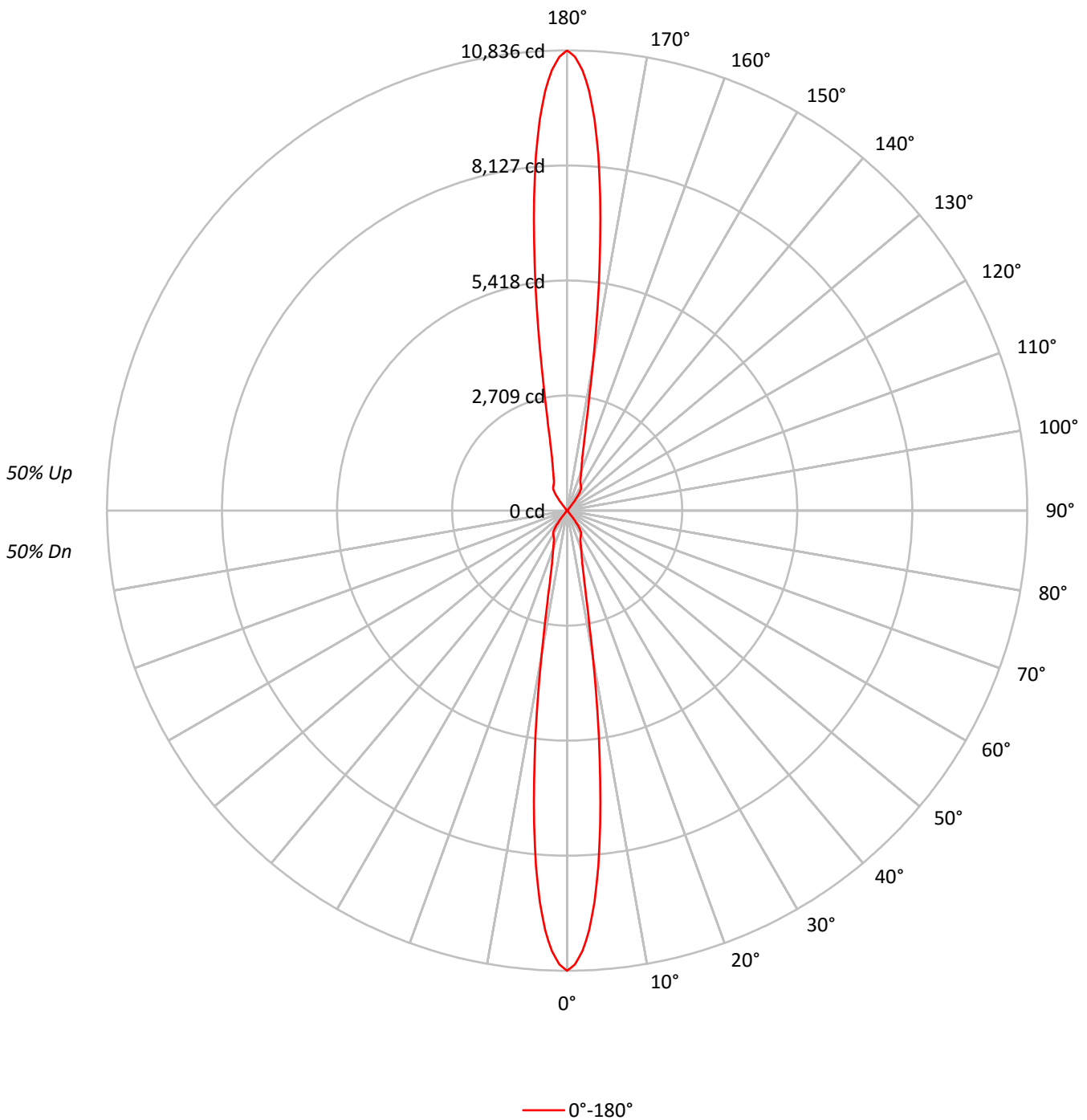
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P222025

CATALOG NUMBER: 9004-W2-FL-LED3090-S-WT-L2-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P222025

CATALOG NUMBER: 9004-W2-FL-LED3090-S-WT-L2-UNV

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 | 101 | 97 | 95 | 92 | 93 | 90 | 88 | 86 | 77 | 76 | 74 | | 65 | 64 | 63 | | 54 | 54 | 53 | 48 |
| 2 | 95 | 89 | 85 | 81 | 88 | 83 | 80 | 76 | 72 | 69 | 67 | | 62 | 60 | 58 | | 52 | 51 | 50 | 46 |
| 3 | 89 | 82 | 77 | 73 | 83 | 77 | 72 | 69 | 67 | 64 | 62 | | 58 | 56 | 54 | | 50 | 49 | 48 | 44 |
| 4 | 84 | 76 | 70 | 66 | 78 | 72 | 67 | 63 | 63 | 60 | 57 | | 55 | 53 | 51 | | 48 | 46 | 45 | 42 |
| 5 | 79 | 71 | 65 | 60 | 74 | 67 | 62 | 58 | 59 | 56 | 53 | | 53 | 50 | 48 | | 46 | 44 | 43 | 40 |
| 6 | 75 | 66 | 60 | 56 | 70 | 63 | 58 | 54 | 56 | 52 | 49 | | 50 | 47 | 45 | | 44 | 43 | 41 | 39 |
| 7 | 71 | 62 | 56 | 52 | 67 | 59 | 54 | 50 | 53 | 49 | 47 | | 48 | 45 | 43 | | 43 | 41 | 40 | 37 |
| 8 | 68 | 59 | 53 | 49 | 64 | 56 | 51 | 47 | 51 | 47 | 44 | | 46 | 43 | 41 | | 41 | 39 | 38 | 36 |
| 9 | 65 | 56 | 50 | 46 | 61 | 53 | 48 | 45 | 48 | 45 | 42 | | 44 | 41 | 39 | | 40 | 38 | 37 | 35 |
| 10 | 62 | 53 | 47 | 44 | 59 | 51 | 46 | 42 | 46 | 43 | 40 | | 42 | 40 | 38 | | 39 | 37 | 35 | 34 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 1336512 |
| 5° | 1040346 |
| 10° | 433297 |
| 15° | 183207 |
| 20° | 125736 |
| 25° | 100358 |
| 30° | 92734 |
| 35° | 75876 |
| 40° | 15973 |
| 45° | 3646 |
| 50° | 1305 |
| 55° | 1054 |
| 60° | 617 |
| 65° | 350 |
| 70° | 216 |
| 75° | 286 |
| 80° | 0 |
| 85° | 0 |



TEST NUMBER: P222025

CATALOG NUMBER: 9004-W2-FL-LED3090-S-WT-L2-UNV

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 631.5 | 18.3 |
| 10°-20° | 442.5 | 12.8 |
| 20°-30° | 348.8 | 10.1 |
| 30°-40° | 274.6 | 8.0 |
| 40°-50° | 22.2 | 0.6 |
| 50°-60° | 4.3 | 0.1 |
| 60°-70° | 1.1 | 0.0 |
| 70°-80° | 0.6 | 0.0 |
| 80°-90° | 0.0 | 0.0 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.6 | 0.0 |
| 110°-120° | 1.1 | 0.0 |
| 120°-130° | 4.3 | 0.1 |
| 130°-140° | 22.2 | 0.6 |
| 140°-150° | 274.6 | 8.0 |
| 150°-160° | 348.8 | 10.1 |
| 160°-170° | 442.5 | 12.8 |
| 170°-180° | 631.5 | 18.3 |
| 0°-30° | 1422.8 | 41.2 |
| 0°-40° | 1697.4 | 49.2 |
| 0°-60° | 1723.9 | 50.0 |
| 0°-90° | 1725.6 | 50.0 |
| 90°-120° | 1.7 | 0.0 |
| 90°-150° | 302.8 | 8.8 |
| 90°-180° | 1726.0 | 50.0 |
| 0°-180° | 3451.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|-------|------|
| 0° | 10836 | |
| 5° | 8402 | 631 |
| 15° | 1435 | 443 |
| 25° | 737 | 349 |
| 35° | 504 | 275 |
| 45° | 21 | 22 |
| 55° | 5 | 4 |
| 65° | 1 | 1 |
| 75° | 1 | 1 |
| 85° | 0 | 0 |
| 90° | 0 | 0 |
| 95° | 0 | 0 |
| 105° | 1 | 1 |
| 115° | 1 | 1 |
| 125° | 5 | 4 |
| 135° | 21 | 22 |
| 145° | 504 | 275 |
| 155° | 737 | 349 |
| 165° | 1435 | 443 |
| 175° | 8402 | 631 |
| 180° | 10836 | |



TEST NUMBER: P222025

CATALOG NUMBER: 9004-W2-FL-LED3090-S-WT-L2-UNV

CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|---------|
| 0° | 10835.5 |
| 1° | 10686.4 |
| 2° | 10376.6 |
| 3° | 9896.1 |
| 4° | 9238.8 |
| 5° | 8402.3 |
| 6° | 7436.4 |
| 7° | 6392.9 |
| 8° | 5369.1 |
| 9° | 4338.5 |
| 10° | 3459.5 |
| 11° | 2757.8 |
| 12° | 2249.0 |
| 13° | 1888.7 |
| 14° | 1627.5 |
| 15° | 1434.7 |
| 16° | 1289.9 |
| 17° | 1184.0 |
| 18° | 1103.3 |
| 19° | 1026.3 |
| 20° | 957.9 |
| 21° | 901.2 |
| 22° | 850.7 |
| 23° | 806.3 |
| 24° | 767.5 |
| 25° | 737.4 |
| 26° | 714.6 |
| 27° | 697.3 |
| 28° | 680.7 |
| 29° | 665.9 |
| 30° | 651.1 |
| 32.5° | 614.2 |
| 35° | 503.9 |
| 37.5° | 300.6 |
| 40° | 99.2 |
| 42.5° | 29.6 |
| 45° | 20.9 |
| 47.5° | 14.8 |
| 50° | 6.8 |
| 52.5° | 6.2 |
| 55° | 4.9 |
| 57.5° | 3.7 |
| 60° | 2.5 |
| 62.5° | 1.2 |
| 65° | 1.2 |



TEST NUMBER: P222025

CATALOG NUMBER: 9004-W2-FL-LED3090-S-WT-L2-UNV

CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|--------|
| 67.5° | 0.6 |
| 70° | 0.6 |
| 72.5° | 0.6 |
| 75° | 0.6 |
| 77.5° | 0.6 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |
| 92.5° | 0.0 |
| 95° | 0.0 |
| 97.5° | 0.0 |
| 100° | 0.0 |
| 102.5° | 0.6 |
| 105° | 0.6 |
| 107.5° | 0.6 |
| 110° | 0.6 |
| 112.5° | 0.6 |
| 115° | 1.2 |
| 117.5° | 1.2 |
| 120° | 2.5 |
| 122.5° | 3.7 |
| 125° | 4.9 |
| 127.5° | 6.2 |
| 130° | 6.8 |
| 132.5° | 14.8 |
| 135° | 20.9 |
| 137.5° | 29.6 |
| 140° | 99.2 |
| 142.5° | 300.6 |
| 145° | 503.9 |
| 147.5° | 614.2 |
| 150° | 651.1 |
| 151° | 665.9 |
| 152° | 680.7 |
| 153° | 697.3 |
| 154° | 714.6 |
| 155° | 737.4 |
| 156° | 767.5 |
| 157° | 806.3 |
| 158° | 850.7 |
| 159° | 901.2 |
| 160° | 957.9 |
| 161° | 1026.3 |



TEST NUMBER: P222025

CATALOG NUMBER: 9004-W2-FL-LED3090-S-WT-L2-UNV

CANDELA DISTRIBUTION (continued):

| | 0° |
|------|---------|
| 162° | 1103.3 |
| 163° | 1184.0 |
| 164° | 1289.9 |
| 165° | 1434.7 |
| 166° | 1627.5 |
| 167° | 1888.7 |
| 168° | 2249.0 |
| 169° | 2757.8 |
| 170° | 3459.5 |
| 171° | 4338.5 |
| 172° | 5369.1 |
| 173° | 6392.9 |
| 174° | 7436.4 |
| 175° | 8402.3 |
| 176° | 9238.8 |
| 177° | 9896.1 |
| 178° | 10376.6 |
| 179° | 10686.4 |
| 180° | 10835.5 |

(END OF REPORT)