

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: P221792

Luminaire Tested: **9004-W2-[RW, RI]-LED3090-W-WT-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29490)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-[RW, RI]-LED3090-W-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 3000K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4146.2 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.83
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

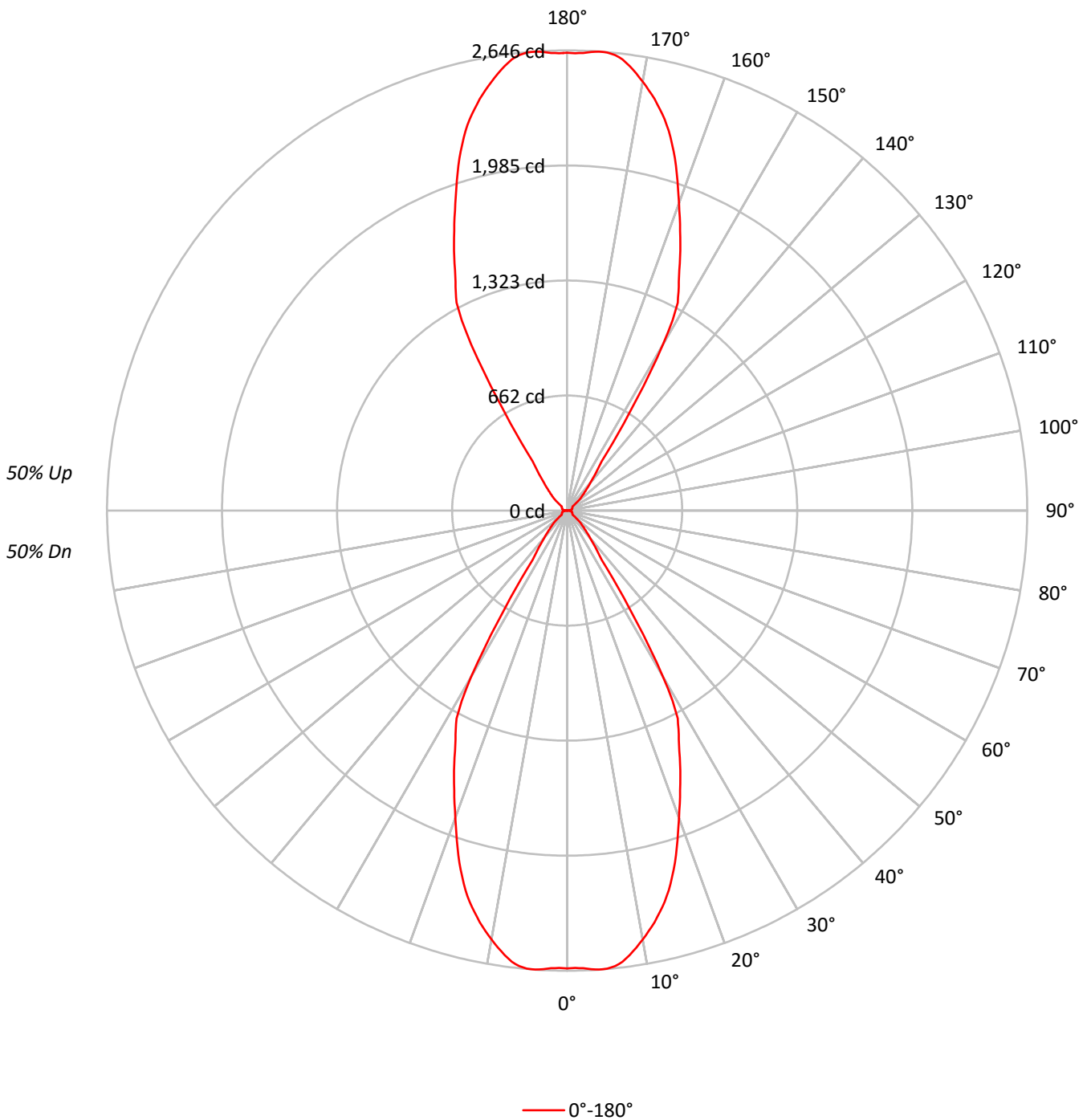
Input Watts (W): 57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 96 | 93 | 90 | 92 | 89 | 87 | 84 | 76 | 74 | 73 | | 64 | 63 | 62 | | 53 | 52 | 51 | 46 |
| 2 | 93 | 87 | 82 | 78 | 86 | 81 | 77 | 73 | 70 | 67 | 64 | | 59 | 57 | 56 | | 50 | 48 | 47 | 43 |
| 3 | 87 | 79 | 73 | 69 | 80 | 74 | 69 | 65 | 64 | 61 | 58 | | 55 | 53 | 51 | | 47 | 45 | 44 | 40 |
| 4 | 81 | 72 | 66 | 61 | 75 | 68 | 62 | 58 | 59 | 55 | 52 | | 51 | 49 | 46 | | 44 | 42 | 41 | 37 |
| 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 | 44 | | 45 | 42 | 39 | | 39 | 37 | 35 | 33 |
| 7 | 67 | 57 | 50 | 46 | 63 | 54 | 48 | 44 | 48 | 43 | 40 | | 42 | 39 | 37 | | 37 | 35 | 33 | 31 |
| 8 | 63 | 53 | 46 | 42 | 59 | 50 | 44 | 40 | 45 | 40 | 37 | | 40 | 37 | 34 | | 35 | 33 | 31 | 29 |
| 9 | 60 | 49 | 43 | 39 | 56 | 47 | 41 | 37 | 42 | 38 | 35 | | 38 | 34 | 32 | | 34 | 31 | 29 | 28 |
| 10 | 56 | 46 | 40 | 36 | 53 | 44 | 38 | 35 | 40 | 35 | 32 | | 36 | 32 | 30 | | 32 | 30 | 28 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 324744 |
| 5° | 327372 |
| 10° | 313660 |
| 15° | 288608 |
| 20° | 246693 |
| 25° | 207670 |
| 30° | 156969 |
| 35° | 52160 |
| 40° | 33153 |
| 45° | 22555 |
| 50° | 13164 |
| 55° | 7892 |
| 60° | 8659 |
| 65° | 9544 |
| 70° | 10927 |
| 75° | 13296 |
| 80° | 15840 |
| 85° | 15851 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 247.9 | 6.0 |
| 10°-20° | 623.4 | 15.0 |
| 20°-30° | 698.2 | 16.8 |
| 30°-40° | 292.0 | 7.0 |
| 40°-50° | 101.4 | 2.4 |
| 50°-60° | 36.8 | 0.9 |
| 60°-70° | 32.4 | 0.8 |
| 70°-80° | 28.9 | 0.7 |
| 80°-90° | 12.2 | 0.3 |
| 90°-100° | 12.2 | 0.3 |
| 100°-110° | 28.9 | 0.7 |
| 110°-120° | 32.4 | 0.8 |
| 120°-130° | 36.8 | 0.9 |
| 130°-140° | 101.4 | 2.4 |
| 140°-150° | 292.0 | 7.0 |
| 150°-160° | 698.2 | 16.8 |
| 160°-170° | 623.4 | 15.0 |
| 170°-180° | 247.9 | 6.0 |
| 0°-30° | 1569.4 | 37.9 |
| 0°-40° | 1861.4 | 44.9 |
| 0°-60° | 1999.7 | 48.2 |
| 0°-90° | 2073.1 | 50.0 |
| 90°-120° | 73.5 | 1.8 |
| 90°-150° | 503.7 | 12.1 |
| 90°-180° | 2073.0 | 50.0 |
| 0°-180° | 4146.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 2633 | |
| 5° | 2644 | 248 |
| 15° | 2260 | 623 |
| 25° | 1526 | 698 |
| 35° | 346 | 292 |
| 45° | 129 | 101 |
| 55° | 37 | 37 |
| 65° | 33 | 32 |
| 75° | 28 | 29 |
| 85° | 11 | 12 |
| 90° | 0 | 1 |
| 95° | 11 | 12 |
| 105° | 28 | 29 |
| 115° | 33 | 32 |
| 125° | 37 | 37 |
| 135° | 129 | 101 |
| 145° | 346 | 292 |
| 155° | 1526 | 698 |
| 165° | 2260 | 623 |
| 175° | 2644 | 248 |
| 180° | 2633 | |



TEST NUMBER: P221792

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3090-W-WT-L3-UNV

CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 2632.8 |
| 1° | 2630.4 |
| 2° | 2632.8 |
| 3° | 2640.8 |
| 4° | 2645.6 |
| 5° | 2644.0 |
| 6° | 2634.4 |
| 7° | 2613.7 |
| 8° | 2580.9 |
| 9° | 2544.2 |
| 10° | 2504.3 |
| 11° | 2462.0 |
| 12° | 2418.9 |
| 13° | 2370.3 |
| 14° | 2318.4 |
| 15° | 2260.1 |
| 16° | 2190.7 |
| 17° | 2118.1 |
| 18° | 2039.9 |
| 19° | 1958.5 |
| 20° | 1879.4 |
| 21° | 1806.0 |
| 22° | 1735.0 |
| 23° | 1664.8 |
| 24° | 1596.1 |
| 25° | 1525.9 |
| 26° | 1464.4 |
| 27° | 1410.2 |
| 28° | 1354.3 |
| 29° | 1252.2 |
| 30° | 1102.1 |
| 32.5° | 660.8 |
| 35° | 346.4 |
| 37.5° | 265.0 |
| 40° | 205.9 |
| 42.5° | 160.4 |
| 45° | 129.3 |
| 47.5° | 103.7 |
| 50° | 68.6 |
| 52.5° | 40.7 |
| 55° | 36.7 |
| 57.5° | 35.9 |
| 60° | 35.1 |
| 62.5° | 34.3 |
| 65° | 32.7 |



TEST NUMBER: P221792

CATALOG NUMBER: 9004-W2-[RW, RI]-LED3090-W-WT-L3-UNV

CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|--------|
| 67.5° | 31.1 |
| 70° | 30.3 |
| 72.5° | 29.5 |
| 75° | 27.9 |
| 77.5° | 25.5 |
| 80° | 22.3 |
| 82.5° | 17.6 |
| 85° | 11.2 |
| 87.5° | 4.8 |
| 90° | 0.0 |
| 92.5° | 4.8 |
| 95° | 11.2 |
| 97.5° | 17.6 |
| 100° | 22.3 |
| 102.5° | 25.5 |
| 105° | 27.9 |
| 107.5° | 29.5 |
| 110° | 30.3 |
| 112.5° | 31.1 |
| 115° | 32.7 |
| 117.5° | 34.3 |
| 120° | 35.1 |
| 122.5° | 35.9 |
| 125° | 36.7 |
| 127.5° | 40.7 |
| 130° | 68.6 |
| 132.5° | 103.7 |
| 135° | 129.3 |
| 137.5° | 160.4 |
| 140° | 205.9 |
| 142.5° | 265.0 |
| 145° | 346.4 |
| 147.5° | 660.8 |
| 150° | 1102.1 |
| 151° | 1252.2 |
| 152° | 1354.3 |
| 153° | 1410.2 |
| 154° | 1464.4 |
| 155° | 1525.9 |
| 156° | 1596.1 |
| 157° | 1664.8 |
| 158° | 1735.0 |
| 159° | 1806.0 |
| 160° | 1879.4 |
| 161° | 1958.5 |



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CATALOG NUMBER: 9004-W2-[RW, RI]-LED3090-W-WT-L3-UNV

CANDELA DISTRIBUTION (continued):

| | 0° |
|------|--------|
| 162° | 2039.9 |
| 163° | 2118.1 |
| 164° | 2190.7 |
| 165° | 2260.1 |
| 166° | 2318.4 |
| 167° | 2370.3 |
| 168° | 2418.9 |
| 169° | 2462.0 |
| 170° | 2504.3 |
| 171° | 2544.2 |
| 172° | 2580.9 |
| 173° | 2613.7 |
| 174° | 2634.4 |
| 175° | 2644.0 |
| 176° | 2645.6 |
| 177° | 2640.8 |
| 178° | 2632.8 |
| 179° | 2630.4 |
| 180° | 2632.8 |

(END OF REPORT)