

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: P221918

Luminaire Tested: **9004-W2-[RW, RI]-LED5080-F-WT-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221918
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-W2-[RW, RI]-LED5080-F-WT-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, FLOOD OPTIC, WHITE HOUSING.
Light Source: (1) 5000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5607.6 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.57
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

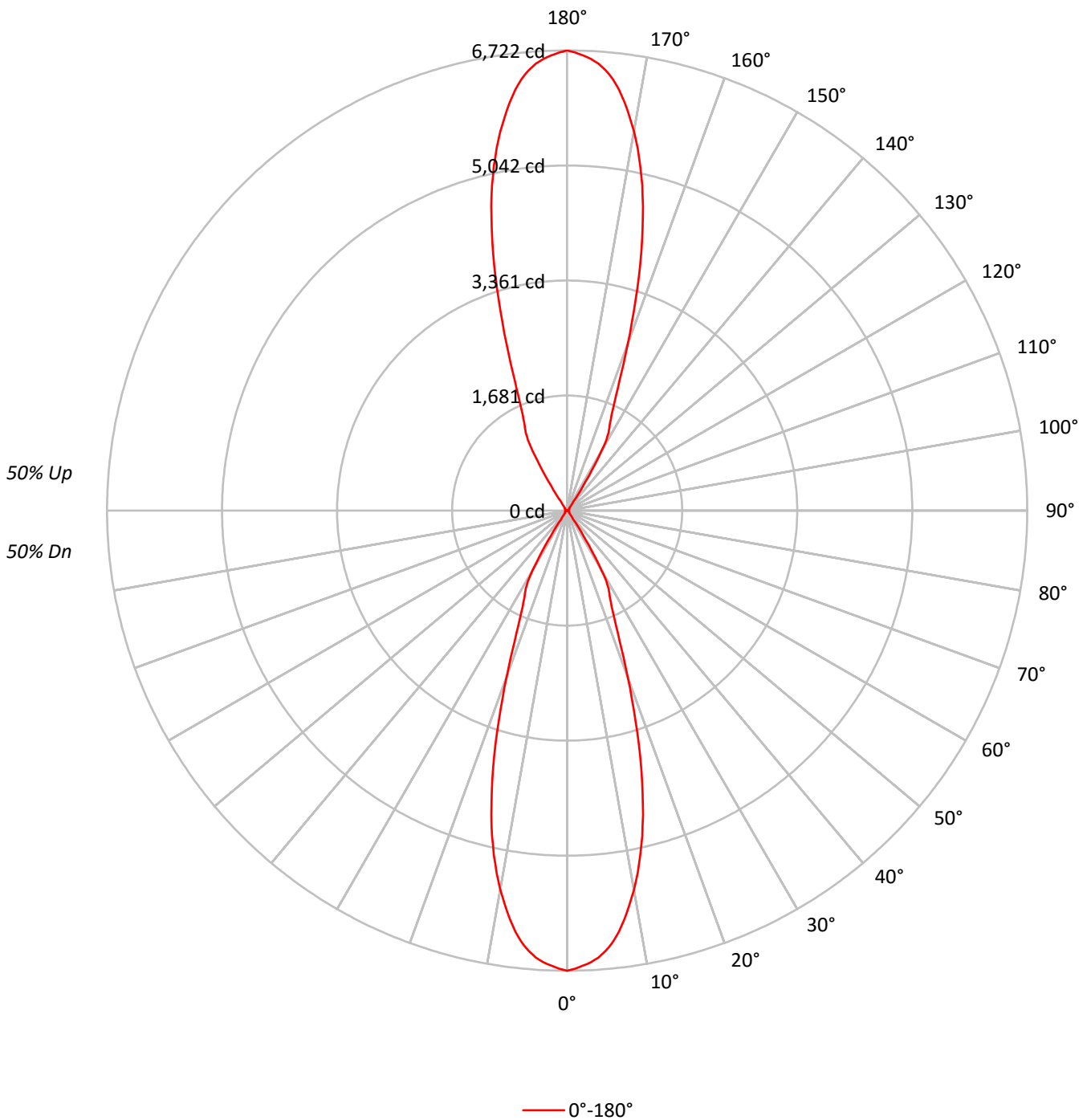
Input Watts (W): 57
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | | 69 | 69 | 69 | | 56 | 56 | 56 | 50 |
| 1 | 100 | 97 | 94 | 91 | 93 | 90 | 87 | 85 | 77 | 75 | 74 | | 65 | 64 | 63 | | 53 | 53 | 52 | 47 |
| 2 | 94 | 88 | 84 | 80 | 87 | 82 | 78 | 75 | 71 | 68 | 66 | | 61 | 59 | 57 | | 51 | 50 | 49 | 45 |
| 3 | 88 | 81 | 76 | 71 | 82 | 76 | 71 | 67 | 66 | 63 | 60 | | 57 | 55 | 53 | | 49 | 47 | 46 | 42 |
| 4 | 83 | 75 | 69 | 64 | 77 | 70 | 65 | 61 | 62 | 58 | 55 | | 54 | 51 | 49 | | 47 | 45 | 44 | 40 |
| 5 | 78 | 69 | 63 | 59 | 73 | 65 | 60 | 56 | 58 | 54 | 51 | | 51 | 48 | 46 | | 45 | 43 | 41 | 39 |
| 6 | 74 | 65 | 58 | 54 | 69 | 61 | 56 | 52 | 55 | 51 | 48 | | 49 | 46 | 43 | | 43 | 41 | 39 | 37 |
| 7 | 70 | 60 | 54 | 50 | 66 | 57 | 52 | 48 | 52 | 48 | 45 | | 46 | 43 | 41 | | 41 | 39 | 38 | 35 |
| 8 | 66 | 57 | 51 | 47 | 62 | 54 | 49 | 45 | 49 | 45 | 42 | | 44 | 41 | 39 | | 39 | 37 | 36 | 34 |
| 9 | 63 | 54 | 48 | 44 | 60 | 51 | 46 | 42 | 46 | 42 | 40 | | 42 | 39 | 37 | | 38 | 36 | 34 | 33 |
| 10 | 60 | 51 | 45 | 41 | 57 | 48 | 43 | 40 | 44 | 40 | 38 | | 40 | 37 | 35 | | 37 | 34 | 33 | 31 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 829166 |
| 5° | 799535 |
| 10° | 704034 |
| 15° | 543618 |
| 20° | 339403 |
| 25° | 208963 |
| 30° | 143225 |
| 35° | 22526 |
| 40° | 10208 |
| 45° | 6890 |
| 50° | 7177 |
| 55° | 7828 |
| 60° | 8708 |
| 65° | 9690 |
| 70° | 11252 |
| 75° | 13868 |
| 80° | 16266 |
| 85° | 16134 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 589.5 | 10.5 |
| 10°-20° | 1143.1 | 20.4 |
| 20°-30° | 740.3 | 13.2 |
| 30°-40° | 190.5 | 3.4 |
| 40°-50° | 32.5 | 0.6 |
| 50°-60° | 32.9 | 0.6 |
| 60°-70° | 33.0 | 0.6 |
| 70°-80° | 29.7 | 0.5 |
| 80°-90° | 12.4 | 0.2 |
| 90°-100° | 12.4 | 0.2 |
| 100°-110° | 29.7 | 0.5 |
| 110°-120° | 33.0 | 0.6 |
| 120°-130° | 32.9 | 0.6 |
| 130°-140° | 32.5 | 0.6 |
| 140°-150° | 190.5 | 3.4 |
| 150°-160° | 740.3 | 13.2 |
| 160°-170° | 1143.1 | 20.4 |
| 170°-180° | 589.5 | 10.5 |
| 0°-30° | 2472.9 | 44.1 |
| 0°-40° | 2663.4 | 47.5 |
| 0°-60° | 2728.7 | 48.7 |
| 0°-90° | 2803.8 | 50.0 |
| 90°-120° | 75.1 | 1.3 |
| 90°-150° | 330.9 | 5.9 |
| 90°-180° | 2804.0 | 50.0 |
| 0°-180° | 5607.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 6722 | |
| 5° | 6457 | 590 |
| 15° | 4257 | 1143 |
| 25° | 1535 | 740 |
| 35° | 150 | 190 |
| 45° | 40 | 32 |
| 55° | 36 | 33 |
| 65° | 33 | 33 |
| 75° | 29 | 30 |
| 85° | 11 | 12 |
| 90° | 0 | 1 |
| 95° | 11 | 12 |
| 105° | 29 | 30 |
| 115° | 33 | 33 |
| 125° | 36 | 33 |
| 135° | 40 | 32 |
| 145° | 150 | 190 |
| 155° | 1535 | 740 |
| 165° | 4257 | 1143 |
| 175° | 6457 | 590 |
| 180° | 6722 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 6722.3 |
| 1° | 6692.2 |
| 2° | 6652.7 |
| 3° | 6605.9 |
| 4° | 6545.7 |
| 5° | 6457.4 |
| 6° | 6345.2 |
| 7° | 6198.7 |
| 8° | 6023.2 |
| 9° | 5827.9 |
| 10° | 5621.1 |
| 11° | 5394.7 |
| 12° | 5145.3 |
| 13° | 4875.3 |
| 14° | 4579.2 |
| 15° | 4257.1 |
| 16° | 3924.7 |
| 17° | 3582.9 |
| 18° | 3240.1 |
| 19° | 2902.5 |
| 20° | 2585.7 |
| 21° | 2295.8 |
| 22° | 2043.4 |
| 23° | 1830.4 |
| 24° | 1663.2 |
| 25° | 1535.4 |
| 26° | 1434.6 |
| 27° | 1356.7 |
| 28° | 1291.3 |
| 29° | 1177.0 |
| 30° | 1005.6 |
| 32.5° | 502.8 |
| 35° | 149.6 |
| 37.5° | 95.6 |
| 40° | 63.4 |
| 42.5° | 40.5 |
| 45° | 39.5 |
| 47.5° | 38.4 |
| 50° | 37.4 |
| 52.5° | 37.4 |
| 55° | 36.4 |
| 57.5° | 36.4 |
| 60° | 35.3 |
| 62.5° | 34.3 |
| 65° | 33.2 |



TEST NUMBER: P221918

CATALOG NUMBER: 9004-W2-[RW, RI]-LED5080-F-WT-L3-UNV

CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|--------|
| 67.5° | 32.2 |
| 70° | 31.2 |
| 72.5° | 30.1 |
| 75° | 29.1 |
| 77.5° | 26.0 |
| 80° | 22.9 |
| 82.5° | 17.7 |
| 85° | 11.4 |
| 87.5° | 5.2 |
| 90° | 0.0 |
| 92.5° | 5.2 |
| 95° | 11.4 |
| 97.5° | 17.7 |
| 100° | 22.9 |
| 102.5° | 26.0 |
| 105° | 29.1 |
| 107.5° | 30.1 |
| 110° | 31.2 |
| 112.5° | 32.2 |
| 115° | 33.2 |
| 117.5° | 34.3 |
| 120° | 35.3 |
| 122.5° | 36.4 |
| 125° | 36.4 |
| 127.5° | 37.4 |
| 130° | 37.4 |
| 132.5° | 38.4 |
| 135° | 39.5 |
| 137.5° | 40.5 |
| 140° | 63.4 |
| 142.5° | 95.6 |
| 145° | 149.6 |
| 147.5° | 502.8 |
| 150° | 1005.6 |
| 151° | 1177.0 |
| 152° | 1291.3 |
| 153° | 1356.7 |
| 154° | 1434.6 |
| 155° | 1535.4 |
| 156° | 1663.2 |
| 157° | 1830.4 |
| 158° | 2043.4 |
| 159° | 2295.8 |
| 160° | 2585.7 |
| 161° | 2902.5 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|------|--------|
| 162° | 3240.1 |
| 163° | 3582.9 |
| 164° | 3924.7 |
| 165° | 4257.1 |
| 166° | 4579.2 |
| 167° | 4875.3 |
| 168° | 5145.3 |
| 169° | 5394.7 |
| 170° | 5621.1 |
| 171° | 5827.9 |
| 172° | 6023.2 |
| 173° | 6198.7 |
| 174° | 6345.2 |
| 175° | 6457.4 |
| 176° | 6545.7 |
| 177° | 6605.9 |
| 178° | 6652.7 |
| 179° | 6692.2 |
| 180° | 6722.3 |

(END OF REPORT)