

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P688463

Luminaire Tested: FLR-WL-24-L3C3 (MED)-50-CA125

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-938-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR-WL-24-L3C3 (MED)-50-CA125
Description: Fail-Safe - FLR Fully Luminous Recessed 2X4 5000K Luminaire at Medium Lumen setting for Wet location
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

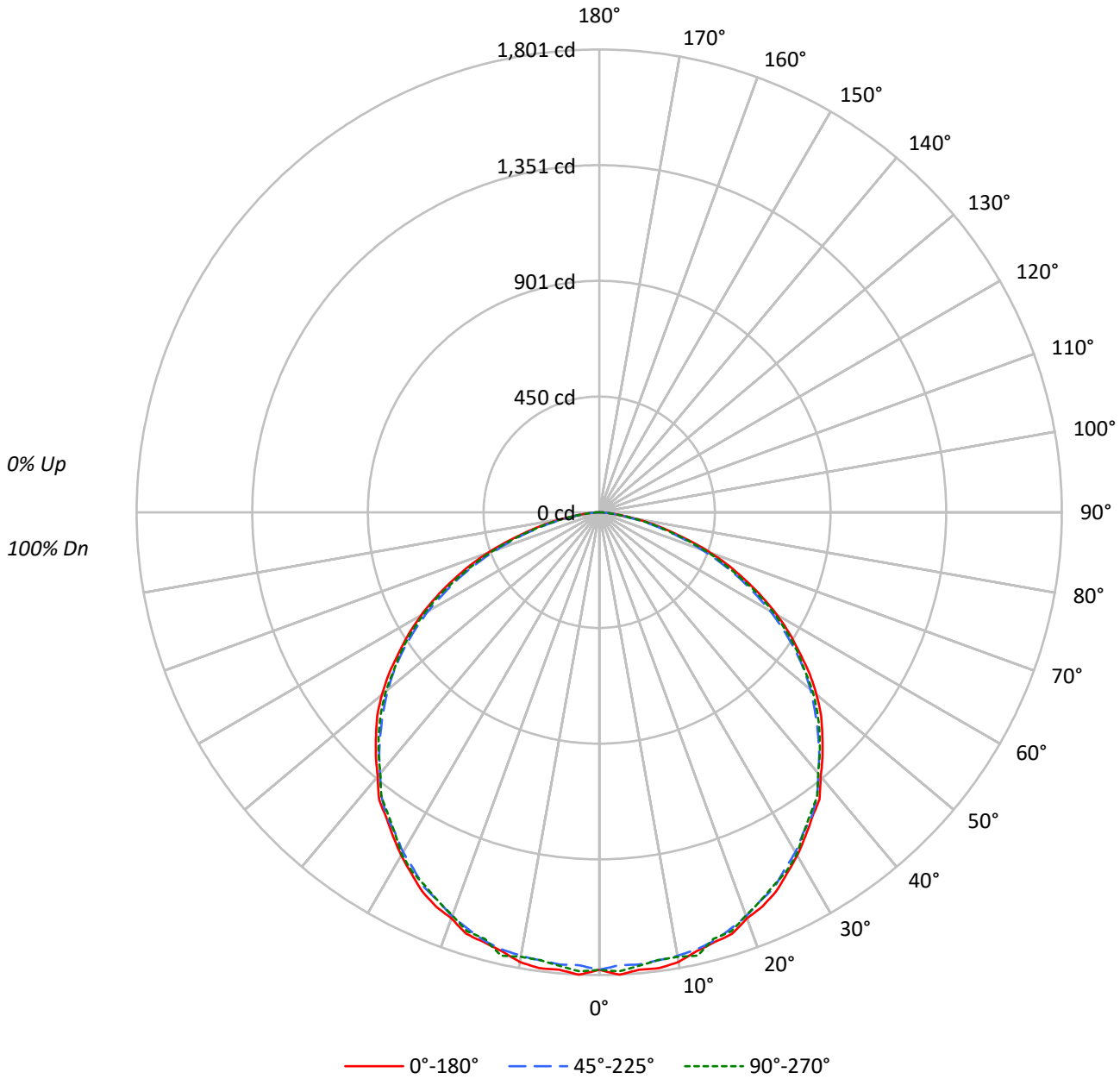
Lumens per Lamp: N/A
Luminaire Lumens: 5002.9 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 39.7
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: 24 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 | 109 | 105 | 101 | 97 | 107 | 102 | 99 | 95 | 98 | 95 | 92 | 94 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 91 | 85 | 79 | 97 | 90 | 83 | 78 | 86 | 81 | 76 | 83 | 79 | 75 | 80 | 76 | 73 | 71 |
| 3 | 91 | 80 | 72 | 66 | 88 | 79 | 71 | 65 | 76 | 69 | 64 | 73 | 68 | 63 | 71 | 66 | 62 | 60 |
| 4 | 83 | 71 | 63 | 56 | 81 | 70 | 62 | 56 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 51 |
| 5 | 76 | 64 | 55 | 48 | 74 | 63 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 47 | 57 | 51 | 46 | 44 |
| 6 | 71 | 57 | 48 | 42 | 69 | 56 | 48 | 42 | 55 | 47 | 41 | 53 | 46 | 41 | 51 | 45 | 41 | 39 |
| 7 | 65 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 34 |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 33 | 43 | 37 | 32 | 30 |
| 9 | 57 | 43 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 27 |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2396 | 2396 | 2396 |
| 5° | 2414 | 2386 | 2393 |
| 10° | 2428 | 2395 | 2400 |
| 15° | 2413 | 2405 | 2394 |
| 20° | 2408 | 2395 | 2391 |
| 25° | 2418 | 2392 | 2381 |
| 30° | 2395 | 2373 | 2388 |
| 35° | 2376 | 2370 | 2354 |
| 40° | 2356 | 2331 | 2328 |
| 45° | 2337 | 2288 | 2308 |
| 50° | 2312 | 2246 | 2271 |
| 55° | 2231 | 2180 | 2206 |
| 60° | 2151 | 2069 | 2114 |
| 65° | 2010 | 1898 | 1944 |
| 70° | 1816 | 1667 | 1742 |
| 75° | 1485 | 1358 | 1405 |
| 80° | 1065 | 953 | 995 |
| 85° | 582 | 499 | 513 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2337 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 168.8 | 3.4 |
| 10°-20° | 486.6 | 9.7 |
| 20°-30° | 740.5 | 14.8 |
| 30°-40° | 897.9 | 17.9 |
| 40°-50° | 933.6 | 18.7 |
| 50°-60° | 834.4 | 16.7 |
| 60°-70° | 601.5 | 12.0 |
| 70°-80° | 289.8 | 5.8 |
| 80°-90° | 49.6 | 1.0 |
| 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° | 1396.0 | 27.9 |
| 0°-40° | 2293.9 | 45.9 |
| 0°-60° | 4061.9 | 81.2 |
| 0°-90° | 5002.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5002.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1781 | 1781 | 1781 | 1781 | 1781 | |
| 5° | 1787 | 1772 | 1766 | 1775 | 1772 | 171 |
| 15° | 1732 | 1720 | 1727 | 1716 | 1719 | 490 |
| 25° | 1629 | 1604 | 1611 | 1603 | 1604 | 748 |
| 35° | 1447 | 1430 | 1443 | 1434 | 1433 | 907 |
| 45° | 1228 | 1212 | 1202 | 1208 | 1213 | 948 |
| 55° | 951 | 938 | 929 | 927 | 940 | 853 |
| 65° | 631 | 616 | 596 | 601 | 611 | 625 |
| 75° | 286 | 278 | 261 | 264 | 270 | 307 |
| 85° | 38 | 35 | 32 | 33 | 33 | 53 |
| 90° | 0 | 0 | 0 | 0 | 0 | |

TEST NUMBER: P688463
 CATALOG NUMBER: FLR-WL-24-L3C3 (MED)-50-CA125

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1780.7 | 1780.7 | 1780.7 | 1780.7 | 1780.7 |
| 2.5° | 1801.3 | 1787.0 | 1764.5 | 1775.3 | 1787.9 |
| 5° | 1787.0 | 1771.7 | 1766.3 | 1775.3 | 1771.7 |
| 7.5° | 1789.7 | 1766.3 | 1759.1 | 1769.0 | 1758.2 |
| 10° | 1777.1 | 1756.4 | 1752.8 | 1757.3 | 1756.4 |
| 12.5° | 1750.2 | 1745.7 | 1743.0 | 1735.8 | 1767.2 |
| 15° | 1732.2 | 1719.6 | 1726.8 | 1716.0 | 1718.7 |
| 17.5° | 1720.5 | 1690.9 | 1699.9 | 1698.1 | 1709.7 |
| 20° | 1681.9 | 1674.7 | 1672.9 | 1667.5 | 1670.2 |
| 22.5° | 1660.4 | 1643.3 | 1637.9 | 1636.1 | 1637.9 |
| 25° | 1628.9 | 1603.8 | 1611.0 | 1602.9 | 1603.8 |
| 27.5° | 1584.0 | 1556.2 | 1565.2 | 1564.3 | 1576.8 |
| 30° | 1541.8 | 1521.2 | 1527.5 | 1522.1 | 1537.3 |
| 32.5° | 1494.2 | 1476.3 | 1479.0 | 1478.1 | 1479.9 |
| 35° | 1446.6 | 1430.5 | 1443.0 | 1434.1 | 1433.2 |
| 37.5° | 1408.0 | 1375.7 | 1392.8 | 1382.9 | 1393.7 |
| 40° | 1341.6 | 1329.0 | 1327.2 | 1320.9 | 1325.4 |
| 42.5° | 1286.8 | 1270.6 | 1267.9 | 1271.5 | 1271.5 |
| 45° | 1228.4 | 1212.3 | 1202.4 | 1207.8 | 1213.2 |
| 47.5° | 1171.9 | 1151.2 | 1138.6 | 1141.3 | 1152.1 |
| 50° | 1104.5 | 1077.6 | 1073.1 | 1076.7 | 1084.8 |
| 52.5° | 1031.8 | 1010.2 | 1003.9 | 1003.0 | 1006.6 |
| 55° | 951.0 | 938.4 | 929.4 | 926.7 | 940.2 |
| 57.5° | 878.2 | 859.4 | 848.6 | 853.1 | 865.6 |
| 60° | 799.2 | 778.5 | 768.7 | 772.3 | 785.7 |
| 62.5° | 716.6 | 695.9 | 680.7 | 687.8 | 703.1 |
| 65° | 631.3 | 616.0 | 596.3 | 600.7 | 610.6 |
| 67.5° | 548.7 | 531.6 | 510.9 | 513.6 | 524.4 |
| 70° | 461.6 | 443.6 | 423.8 | 428.3 | 442.7 |
| 72.5° | 370.0 | 358.3 | 340.3 | 342.1 | 354.7 |
| 75° | 285.6 | 277.5 | 261.3 | 264.0 | 270.3 |
| 77.5° | 211.9 | 201.1 | 188.6 | 191.3 | 199.4 |
| 80° | 137.4 | 133.8 | 123.0 | 124.8 | 128.4 |
| 82.5° | 78.1 | 78.1 | 73.6 | 71.8 | 76.3 |
| 85° | 37.7 | 35.0 | 32.3 | 33.2 | 33.2 |
| 87.5° | 9.0 | 9.9 | 9.0 | 8.1 | 9.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)