

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: P688082

Luminaire Tested: FLR-WL-22-L3C3 (HI)-50-CP375

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2207-724-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR-WL-22-L3C3 (HI)-50-CP375
Description: Fail-Safe - FLR Fully Luminous Recessed 2X2 5000K Luminaire at High Lumen setting for Wet location
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

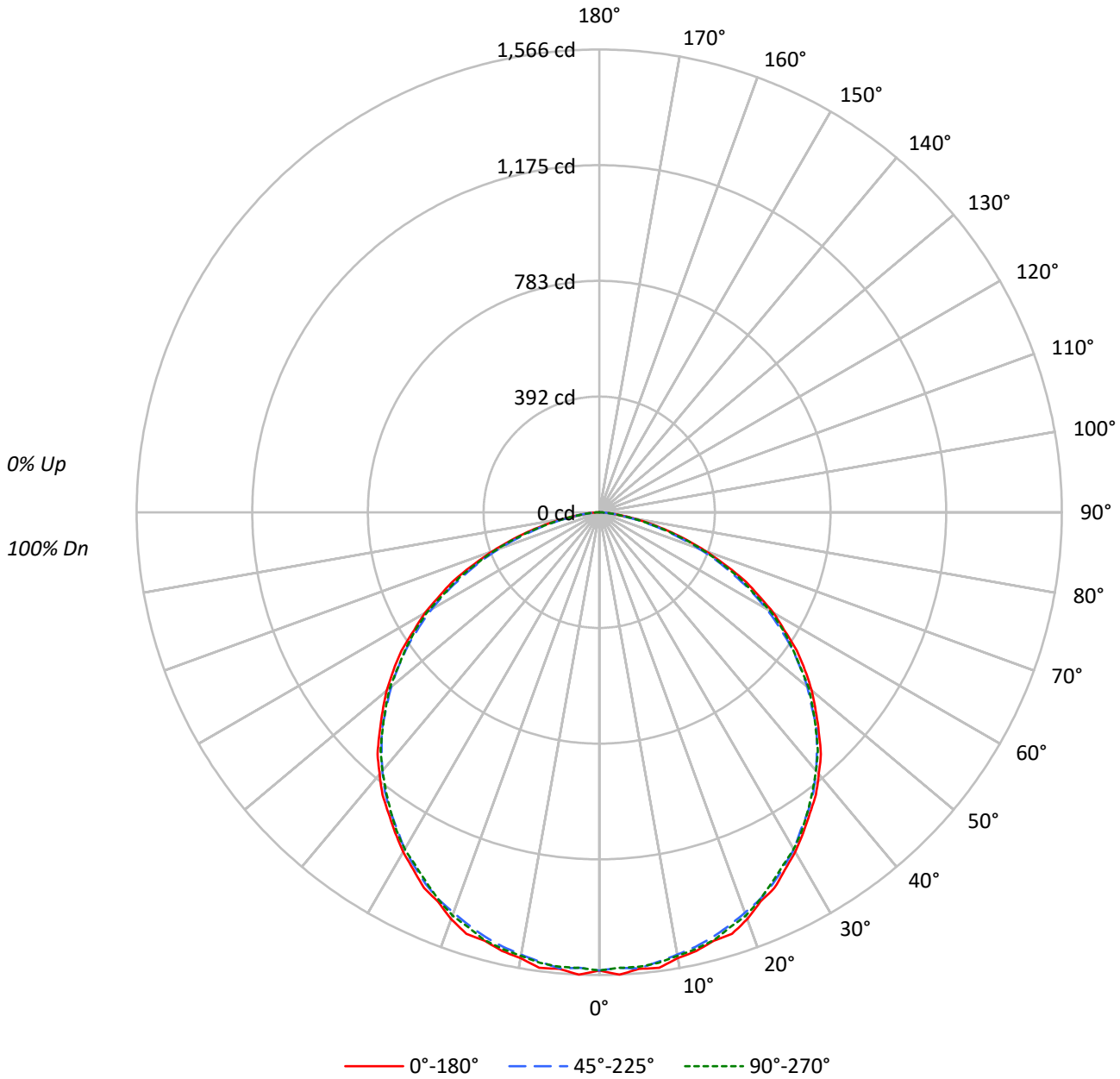
Lumens per Lamp: N/A
Luminaire Lumens: 4274.3 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 40.5
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 | 103 | 99 | 96 | 98 | 95 | 93 | 94 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 76 | 73 | 71 |
| 3 | 91 | 81 | 73 | 66 | 88 | 79 | 72 | 66 | 76 | 70 | 65 | 73 | 68 | 63 | 71 | 66 | 62 | 60 |
| 4 | 83 | 72 | 63 | 56 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 51 |
| 5 | 77 | 64 | 55 | 48 | 75 | 63 | 54 | 48 | 61 | 53 | 48 | 59 | 52 | 47 | 57 | 51 | 47 | 45 |
| 6 | 71 | 58 | 49 | 42 | 69 | 57 | 48 | 42 | 55 | 47 | 42 | 53 | 46 | 41 | 52 | 46 | 41 | 39 |
| 7 | 66 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 36 | 34 |
| 8 | 61 | 48 | 39 | 33 | 59 | 47 | 39 | 33 | 46 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 |
| 9 | 57 | 44 | 35 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 29 | 28 |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4173 | 4173 | 4173 |
| 5° | 4189 | 4185 | 4171 |
| 10° | 4186 | 4154 | 4166 |
| 15° | 4181 | 4145 | 4176 |
| 20° | 4195 | 4129 | 4159 |
| 25° | 4165 | 4123 | 4105 |
| 30° | 4122 | 4093 | 4090 |
| 35° | 4084 | 4053 | 4045 |
| 40° | 4063 | 4012 | 4009 |
| 45° | 4000 | 3958 | 3945 |
| 50° | 3931 | 3849 | 3874 |
| 55° | 3831 | 3716 | 3735 |
| 60° | 3668 | 3517 | 3599 |
| 65° | 3436 | 3214 | 3317 |
| 70° | 3009 | 2814 | 2921 |
| 75° | 2491 | 2244 | 2367 |
| 80° | 1765 | 1581 | 1646 |
| 85° | 892 | 787 | 840 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4000 cd/sqm

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 146.8 | 3.4 |
| 10°-20° | 421.3 | 9.9 |
| 20°-30° | 639.7 | 15.0 |
| 30°-40° | 772.0 | 18.1 |
| 40°-50° | 800.4 | 18.7 |
| 50°-60° | 709.0 | 16.6 |
| 60°-70° | 506.1 | 11.8 |
| 70°-80° | 239.8 | 5.6 |
| 80°-90° | 39.2 | 0.9 |
| 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° | 1207.8 | 28.3 |
| 0°-40° | 1979.8 | 46.3 |
| 0°-60° | 3489.2 | 81.6 |
| 0°-90° | 4274.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4274.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1551 | 1551 | 1551 | 1551 | 1551 | |
| 5° | 1551 | 1543 | 1549 | 1538 | 1544 | 148 |
| 15° | 1501 | 1492 | 1488 | 1496 | 1499 | 425 |
| 25° | 1403 | 1380 | 1388 | 1389 | 1382 | 645 |
| 35° | 1243 | 1230 | 1234 | 1229 | 1231 | 779 |
| 45° | 1051 | 1036 | 1040 | 1037 | 1037 | 812 |
| 55° | 817 | 794 | 792 | 789 | 796 | 726 |
| 65° | 540 | 505 | 505 | 508 | 521 | 527 |
| 75° | 240 | 220 | 216 | 221 | 228 | 255 |
| 85° | 29 | 26 | 26 | 25 | 27 | 43 |
| 90° | 0 | 0 | 0 | 0 | 0 | |

TEST NUMBER: P688082

CATALOG NUMBER: FLR-WL-22-L3C3 (HI)-50-CP375

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1550.8 | 1550.8 | 1550.8 | 1550.8 | 1550.8 |
| 2.5° | 1566.1 | 1538.9 | 1543.1 | 1546.5 | 1543.1 |
| 5° | 1550.8 | 1543.1 | 1549.1 | 1538.0 | 1544.0 |
| 7.5° | 1555.0 | 1536.3 | 1533.8 | 1530.4 | 1538.0 |
| 10° | 1532.1 | 1521.1 | 1520.2 | 1526.2 | 1524.5 |
| 12.5° | 1520.2 | 1510.9 | 1505.8 | 1506.6 | 1513.4 |
| 15° | 1500.7 | 1492.2 | 1487.9 | 1496.4 | 1499.0 |
| 17.5° | 1495.6 | 1465.8 | 1465.8 | 1467.5 | 1472.6 |
| 20° | 1465.0 | 1445.4 | 1442.0 | 1445.4 | 1452.2 |
| 22.5° | 1425.9 | 1419.1 | 1419.1 | 1421.6 | 1419.9 |
| 25° | 1402.9 | 1380.0 | 1388.5 | 1389.3 | 1382.5 |
| 27.5° | 1363.0 | 1354.5 | 1352.8 | 1349.4 | 1346.9 |
| 30° | 1326.5 | 1312.9 | 1317.1 | 1317.1 | 1316.3 |
| 32.5° | 1285.7 | 1276.3 | 1272.1 | 1272.9 | 1277.2 |
| 35° | 1243.2 | 1230.4 | 1233.8 | 1228.7 | 1231.3 |
| 37.5° | 1204.9 | 1188.0 | 1191.3 | 1188.8 | 1186.3 |
| 40° | 1156.5 | 1142.9 | 1142.1 | 1137.8 | 1141.2 |
| 42.5° | 1110.6 | 1091.1 | 1090.2 | 1091.1 | 1095.3 |
| 45° | 1051.1 | 1035.8 | 1040.1 | 1036.7 | 1036.7 |
| 47.5° | 994.2 | 984.0 | 976.4 | 977.2 | 980.6 |
| 50° | 939.0 | 919.4 | 919.4 | 912.6 | 925.4 |
| 52.5° | 877.8 | 858.2 | 855.7 | 858.2 | 856.5 |
| 55° | 816.6 | 793.7 | 792.0 | 788.6 | 796.2 |
| 57.5° | 742.7 | 720.6 | 722.3 | 724.0 | 735.0 |
| 60° | 681.5 | 651.8 | 653.5 | 655.2 | 668.8 |
| 62.5° | 605.9 | 581.2 | 580.4 | 582.9 | 586.3 |
| 65° | 539.6 | 504.8 | 504.8 | 508.2 | 520.9 |
| 67.5° | 455.5 | 434.2 | 433.4 | 437.6 | 442.7 |
| 70° | 382.4 | 357.7 | 357.7 | 362.8 | 371.3 |
| 72.5° | 309.3 | 288.9 | 285.5 | 293.2 | 299.1 |
| 75° | 239.6 | 220.1 | 215.8 | 220.9 | 227.7 |
| 77.5° | 171.6 | 158.9 | 155.5 | 160.6 | 162.3 |
| 80° | 113.9 | 102.8 | 102.0 | 104.5 | 106.2 |
| 82.5° | 65.4 | 58.6 | 56.1 | 58.6 | 59.5 |
| 85° | 28.9 | 26.3 | 25.5 | 24.6 | 27.2 |
| 87.5° | 6.8 | 6.8 | 6.8 | 6.8 | 7.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)