

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: P688326

Luminaire Tested: FLR-MC-22-L3C3 (MED)-35-CP125

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688326  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2207-724-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR-MC-22-L3C3 (MED)-35-CP125  
Description: Fail-Safe - FLR Fully Luminous Recessed 2X2 3500K Luminaire at Midium Lumen setting for Medical/Cleanroom  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

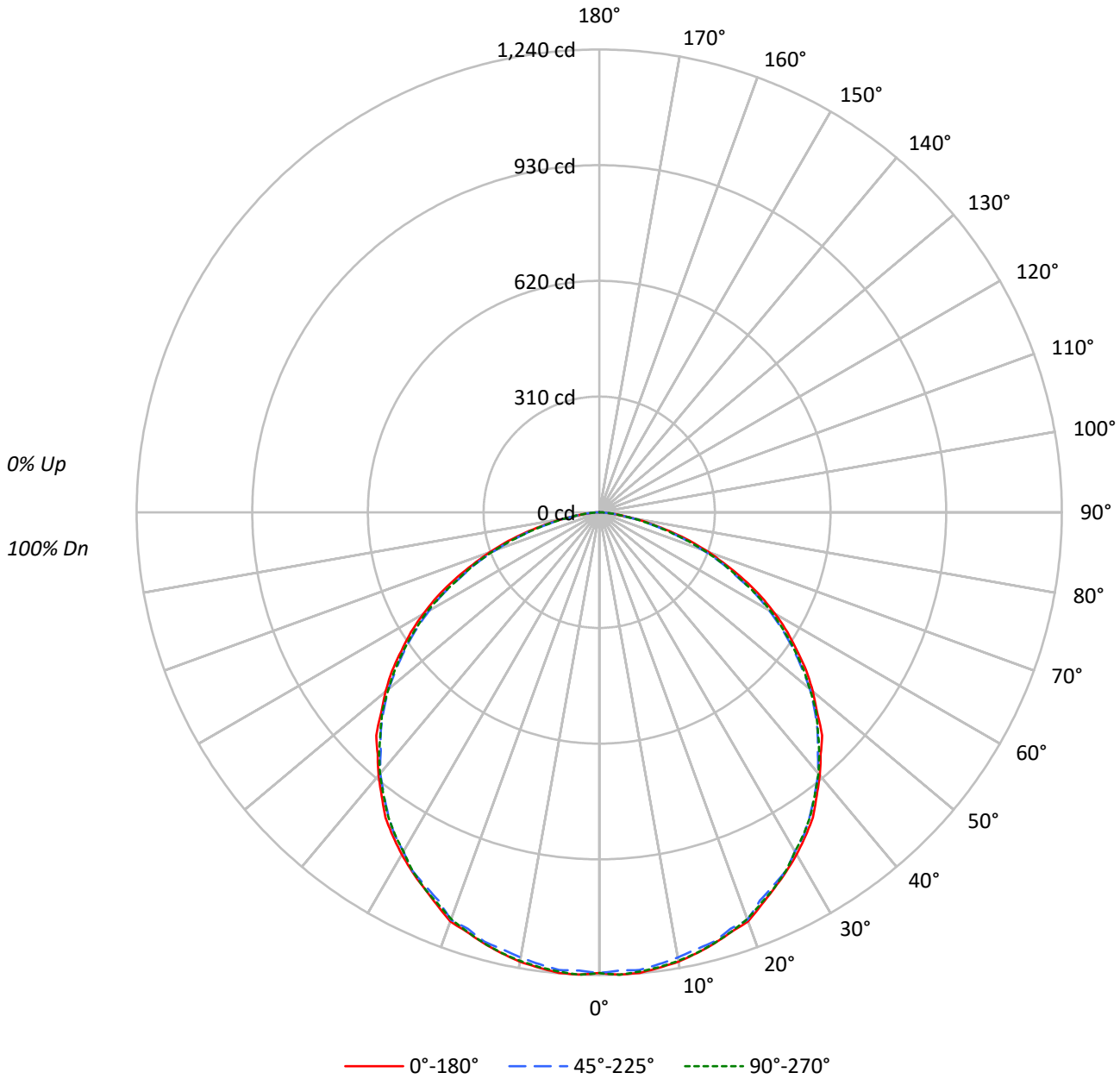
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3425.3 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 30.2  
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: 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  | 95  | 98  | 95  | 92  | 94  | 92  | 90  | 91  | 89  | 87  | 85  |
| 2   | 100 | 92  | 85  | 79  | 97  | 90  | 84  | 78  | 86  | 81  | 77  | 83  | 79  | 75  | 80  | 76  | 73  | 71  |
| 3   | 91  | 81  | 73  | 66  | 88  | 79  | 72  | 66  | 76  | 70  | 64  | 73  | 68  | 63  | 71  | 66  | 62  | 60  |
| 4   | 83  | 71  | 63  | 56  | 81  | 70  | 62  | 56  | 68  | 61  | 55  | 65  | 59  | 54  | 63  | 58  | 54  | 51  |
| 5   | 77  | 64  | 55  | 48  | 74  | 63  | 54  | 48  | 61  | 53  | 48  | 59  | 52  | 47  | 57  | 51  | 47  | 44  |
| 6   | 71  | 57  | 49  | 42  | 69  | 56  | 48  | 42  | 55  | 47  | 42  | 53  | 46  | 41  | 51  | 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  | 45  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 31  |
| 9   | 57  | 44  | 35  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 29  | 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°  | 3323 | 3323 | 3323 |
| 5°  | 3347 | 3326 | 3337 |
| 10° | 3342 | 3310 | 3335 |
| 15° | 3331 | 3318 | 3329 |
| 20° | 3342 | 3327 | 3322 |
| 25° | 3299 | 3278 | 3297 |
| 30° | 3289 | 3260 | 3262 |
| 35° | 3280 | 3242 | 3248 |
| 40° | 3231 | 3206 | 3211 |
| 45° | 3216 | 3149 | 3154 |
| 50° | 3129 | 3085 | 3085 |
| 55° | 3037 | 2970 | 2988 |
| 60° | 2930 | 2829 | 2868 |
| 65° | 2730 | 2589 | 2614 |
| 70° | 2446 | 2308 | 2344 |
| 75° | 2016 | 1893 | 1887 |
| 80° | 1412 | 1331 | 1331 |
| 85° | 763  | 682  | 682  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3216 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 117.1  | 3.4       |
| 10°-20°   | 336.0  | 9.8       |
| 20°-30°   | 510.7  | 14.9      |
| 30°-40°   | 617.7  | 18.0      |
| 40°-50°   | 639.4  | 18.7      |
| 50°-60°   | 568.1  | 16.6      |
| 60°-70°   | 408.2  | 11.9      |
| 70°-80°   | 195.2  | 5.7       |
| 80°-90°   | 32.9   | 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°    | 963.8  | 28.1      |
| 0°-40°    | 1581.5 | 46.2      |
| 0°-60°    | 2789.1 | 81.4      |
| 0°-90°    | 3425.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3425.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1235 | 1235  | 1235 | 1235  | 1235 |      |
| 5°  | 1239 | 1231  | 1231 | 1233  | 1235 | 118  |
| 15° | 1196 | 1188  | 1191 | 1188  | 1195 | 338  |
| 25° | 1111 | 1105  | 1104 | 1108  | 1110 | 513  |
| 35° | 999  | 992   | 987  | 986   | 989  | 622  |
| 45° | 845  | 833   | 828  | 825   | 829  | 647  |
| 55° | 647  | 641   | 633  | 629   | 637  | 580  |
| 65° | 429  | 424   | 407  | 396   | 410  | 424  |
| 75° | 194  | 191   | 182  | 166   | 182  | 208  |
| 85° | 25   | 23    | 22   | 21    | 22   | 35   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1234.7 | 1234.7 | 1234.7 | 1234.7 | 1234.7 |
| 2.5°  | 1239.9 | 1230.8 | 1228.8 | 1240.5 | 1240.5 |
| 5°    | 1239.2 | 1230.8 | 1231.4 | 1232.7 | 1235.3 |
| 7.5°  | 1230.8 | 1226.2 | 1221.7 | 1226.2 | 1229.5 |
| 10°   | 1223.0 | 1212.6 | 1211.3 | 1213.2 | 1220.4 |
| 12.5° | 1210.0 | 1198.3 | 1199.6 | 1202.8 | 1209.3 |
| 15°   | 1195.7 | 1187.9 | 1191.1 | 1188.5 | 1195.0 |
| 17.5° | 1178.7 | 1178.7 | 1170.3 | 1168.3 | 1178.1 |
| 20°   | 1167.0 | 1150.8 | 1161.8 | 1152.1 | 1159.9 |
| 22.5° | 1137.8 | 1128.7 | 1126.1 | 1133.9 | 1133.9 |
| 25°   | 1111.1 | 1105.2 | 1103.9 | 1108.5 | 1110.4 |
| 27.5° | 1085.7 | 1082.5 | 1083.8 | 1083.1 | 1083.1 |
| 30°   | 1058.4 | 1049.9 | 1049.3 | 1049.3 | 1049.9 |
| 32.5° | 1029.1 | 1023.3 | 1022.6 | 1018.7 | 1020.7 |
| 35°   | 998.6  | 992.0  | 986.8  | 985.5  | 988.8  |
| 37.5° | 957.6  | 949.8  | 949.1  | 950.4  | 950.4  |
| 40°   | 919.8  | 911.4  | 912.7  | 908.1  | 914.0  |
| 42.5° | 878.9  | 871.7  | 867.1  | 865.8  | 873.0  |
| 45°   | 845.0  | 832.7  | 827.5  | 824.9  | 828.8  |
| 47.5° | 791.7  | 788.4  | 783.2  | 778.7  | 787.8  |
| 50°   | 747.4  | 749.4  | 737.0  | 732.5  | 737.0  |
| 52.5° | 700.6  | 692.2  | 683.7  | 675.9  | 688.9  |
| 55°   | 647.3  | 640.8  | 633.0  | 629.1  | 636.9  |
| 57.5° | 598.5  | 591.3  | 579.6  | 570.5  | 584.2  |
| 60°   | 544.5  | 538.0  | 525.6  | 515.9  | 532.8  |
| 62.5° | 489.2  | 482.0  | 470.3  | 454.7  | 472.3  |
| 65°   | 428.7  | 424.1  | 406.6  | 396.2  | 410.5  |
| 67.5° | 367.5  | 364.9  | 354.5  | 337.0  | 357.8  |
| 70°   | 310.9  | 305.7  | 293.4  | 277.8  | 297.9  |
| 72.5° | 255.0  | 245.9  | 236.8  | 221.8  | 238.7  |
| 75°   | 193.9  | 190.6  | 182.1  | 166.5  | 181.5  |
| 77.5° | 140.5  | 137.3  | 131.4  | 119.7  | 131.4  |
| 80°   | 91.1   | 90.4   | 85.9   | 77.4   | 85.9   |
| 82.5° | 52.0   | 52.0   | 48.8   | 45.5   | 48.8   |
| 85°   | 24.7   | 23.4   | 22.1   | 20.8   | 22.1   |
| 87.5° | 6.5    | 6.5    | 6.5    | 6.5    | 7.2    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)