

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P1498842

Luminaire Tested: MAE-G-2-120-3STD-LO-30-90

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498842  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: MAE-G-2-120-3STD-LO-30-90  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 STD ambient , LO exam illumination levels  
Light Source: -  
Ballast/Driver: -

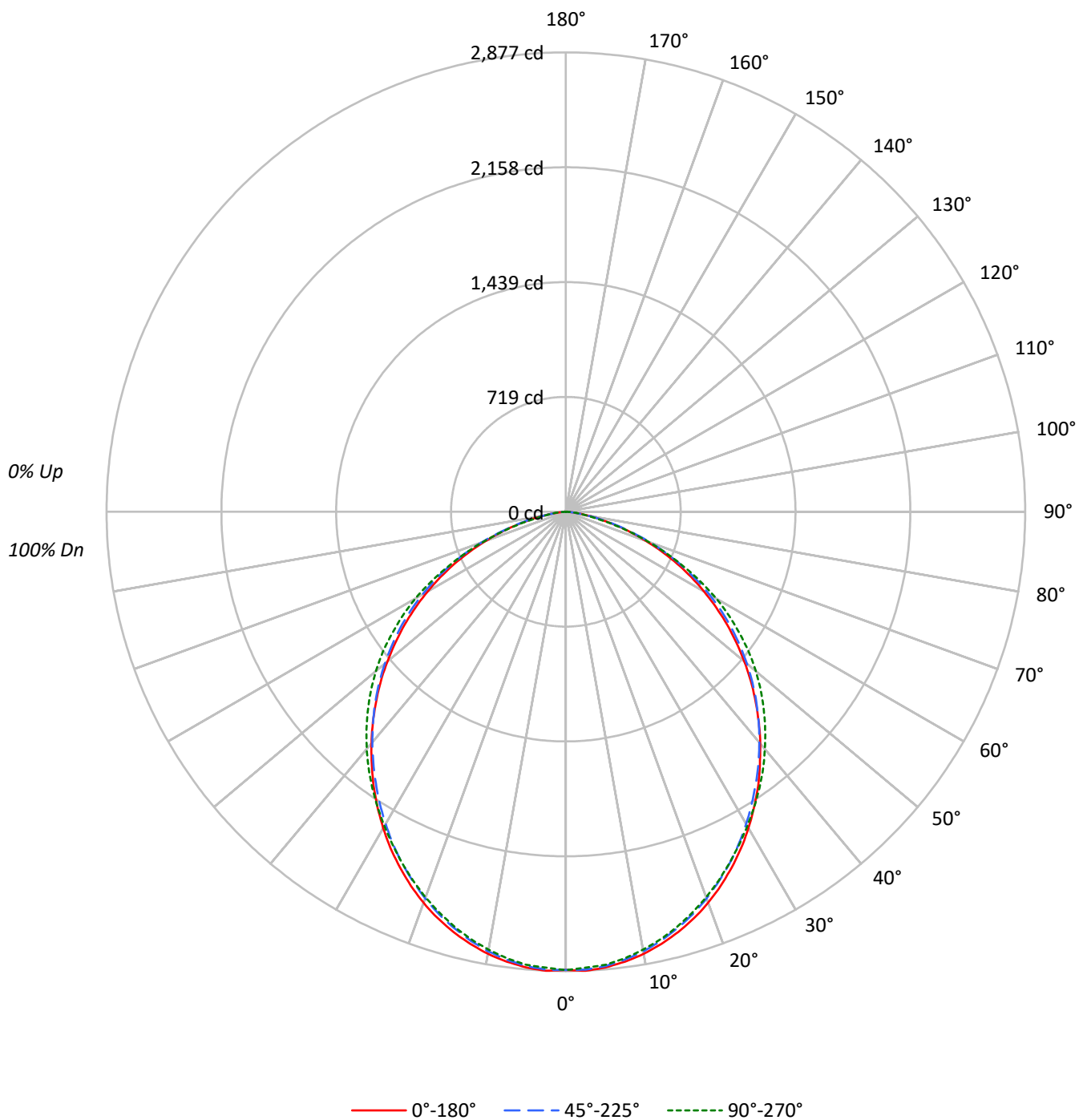
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7094.0 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 76.8  
Input Voltage (V): NR  
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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 110 | 105 | 101 | 98  | 107 | 103 | 99  | 96  | 99  | 96  | 93  | 95  | 93  | 90  | 91  | 89  | 88  | 88  | 88  | 86  |
| 2   | 100 | 92  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 77  | 74  | 74  | 74  | 72  |
| 3   | 92  | 82  | 74  | 68  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 65  | 72  | 67  | 64  | 64  | 64  | 62  |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 57  | 67  | 61  | 56  | 64  | 59  | 55  | 55  | 55  | 53  |
| 5   | 78  | 65  | 56  | 50  | 75  | 64  | 56  | 50  | 62  | 55  | 49  | 60  | 54  | 49  | 58  | 53  | 48  | 48  | 48  | 46  |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 43  | 54  | 48  | 43  | 53  | 47  | 43  | 43  | 43  | 40  |
| 7   | 67  | 53  | 45  | 39  | 65  | 53  | 44  | 39  | 51  | 44  | 38  | 50  | 43  | 38  | 48  | 42  | 38  | 38  | 38  | 36  |
| 8   | 62  | 49  | 40  | 35  | 60  | 48  | 40  | 35  | 47  | 40  | 34  | 46  | 39  | 34  | 44  | 38  | 34  | 34  | 34  | 32  |
| 9   | 58  | 45  | 37  | 31  | 57  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 31  | 31  | 31  | 29  |
| 10  | 54  | 41  | 34  | 29  | 53  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 28  | 28  | 26  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7723 | 7723 | 7723 |
| 5°  | 7737 | 7713 | 7692 |
| 10° | 7683 | 7639 | 7610 |
| 15° | 7589 | 7523 | 7497 |
| 20° | 7464 | 7381 | 7359 |
| 25° | 7299 | 7210 | 7204 |
| 30° | 7110 | 7016 | 7062 |
| 35° | 6896 | 6817 | 6943 |
| 40° | 6655 | 6623 | 6815 |
| 45° | 6393 | 6424 | 6671 |
| 50° | 6108 | 6196 | 6500 |
| 55° | 5786 | 5930 | 6236 |
| 60° | 5386 | 5586 | 5868 |
| 65° | 4888 | 5114 | 5213 |
| 70° | 4205 | 4419 | 4342 |
| 75° | 3335 | 3464 | 3160 |
| 80° | 2235 | 2199 | 1954 |
| 85° | 1136 | 1318 | 1559 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6671 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 270.3  | 3.8       |
| 10°-20°   | 760.8  | 10.7      |
| 20°-30°   | 1119.5 | 15.8      |
| 30°-40°   | 1305.8 | 18.4      |
| 40°-50°   | 1311.0 | 18.5      |
| 50°-60°   | 1134.5 | 16.0      |
| 60°-70°   | 787.2  | 11.1      |
| 70°-80°   | 347.6  | 4.9       |
| 80°-90°   | 57.4   | 0.8       |
| 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°    | 2150.6 | 30.3      |
| 0°-40°    | 3456.3 | 48.7      |
| 0°-60°    | 5901.8 | 83.2      |
| 0°-90°    | 7094.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7094.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2870 | 2870  | 2870 | 2870  | 2870 |      |
| 5°  | 2864 | 2851  | 2856 | 2844  | 2847 | 272  |
| 15° | 2724 | 2708  | 2700 | 2686  | 2691 | 768  |
| 25° | 2458 | 2440  | 2428 | 2415  | 2426 | 1132 |
| 35° | 2099 | 2078  | 2075 | 2091  | 2114 | 1312 |
| 45° | 1680 | 1667  | 1688 | 1728  | 1753 | 1296 |
| 55° | 1233 | 1226  | 1264 | 1312  | 1329 | 1101 |
| 65° | 768  | 771   | 803  | 817   | 819  | 759  |
| 75° | 321  | 326   | 333  | 316   | 304  | 345  |
| 85° | 37   | 39    | 43   | 48    | 50   | 55   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2869.9 | 2869.9 | 2869.9 | 2869.9 | 2869.9 |
| 2.5°  | 2877.4 | 2864.4 | 2869.9 | 2860.8 | 2857.9 |
| 5°    | 2864.2 | 2851.3 | 2855.5 | 2843.8 | 2847.4 |
| 7.5°  | 2842.0 | 2828.5 | 2830.1 | 2817.7 | 2821.2 |
| 10°   | 2811.6 | 2796.3 | 2795.6 | 2782.0 | 2784.9 |
| 12.5° | 2771.4 | 2756.0 | 2752.4 | 2737.3 | 2742.4 |
| 15°   | 2724.0 | 2707.5 | 2700.2 | 2686.1 | 2691.0 |
| 17.5° | 2669.2 | 2651.4 | 2642.9 | 2626.2 | 2633.7 |
| 20°   | 2606.3 | 2587.6 | 2577.3 | 2559.3 | 2569.6 |
| 22.5° | 2535.8 | 2516.7 | 2504.4 | 2489.3 | 2499.9 |
| 25°   | 2458.2 | 2439.5 | 2428.4 | 2415.3 | 2426.4 |
| 27.5° | 2376.5 | 2355.8 | 2345.5 | 2337.9 | 2350.2 |
| 30°   | 2288.1 | 2267.2 | 2258.0 | 2255.6 | 2272.7 |
| 32.5° | 2194.9 | 2174.8 | 2168.1 | 2174.6 | 2194.2 |
| 35°   | 2099.3 | 2078.3 | 2075.1 | 2090.8 | 2113.5 |
| 37.5° | 1996.3 | 1979.8 | 1981.5 | 2006.0 | 2029.2 |
| 40°   | 1894.5 | 1877.1 | 1885.4 | 1915.9 | 1940.1 |
| 42.5° | 1789.1 | 1774.7 | 1787.8 | 1825.2 | 1848.0 |
| 45°   | 1680.0 | 1667.2 | 1687.9 | 1728.3 | 1753.0 |
| 47.5° | 1573.0 | 1559.5 | 1585.8 | 1629.3 | 1655.8 |
| 50°   | 1458.9 | 1449.2 | 1480.0 | 1527.9 | 1552.6 |
| 52.5° | 1346.1 | 1336.7 | 1372.7 | 1422.8 | 1446.3 |
| 55°   | 1233.3 | 1225.5 | 1264.0 | 1312.3 | 1329.1 |
| 57.5° | 1116.7 | 1114.8 | 1153.6 | 1195.4 | 1212.5 |
| 60°   | 1000.7 | 999.7  | 1038.0 | 1075.7 | 1090.4 |
| 62.5° | 884.8  | 886.5  | 921.9  | 951.1  | 955.1  |
| 65°   | 767.7  | 770.9  | 803.1  | 816.6  | 818.7  |
| 67.5° | 649.6  | 655.6  | 683.4  | 688.0  | 686.5  |
| 70°   | 534.4  | 538.6  | 561.6  | 559.9  | 551.8  |
| 72.5° | 422.5  | 429.3  | 442.1  | 434.3  | 422.2  |
| 75°   | 320.8  | 326.2  | 333.2  | 315.6  | 303.9  |
| 77.5° | 226.0  | 229.8  | 230.1  | 211.4  | 203.5  |
| 80°   | 144.2  | 148.8  | 141.9  | 131.4  | 126.1  |
| 82.5° | 80.2   | 84.2   | 78.2   | 82.4   | 84.3   |
| 85°   | 36.8   | 38.7   | 42.7   | 48.3   | 50.5   |
| 87.5° | 12.6   | 14.5   | 17.3   | 18.4   | 17.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CIE UGR TABLE:**

| Reflectances:   |      |                  |       |       |       |       |                |       |       |       |       |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling         |      | 0.7              | 0.7   | 0.5   | 0.5   | 0.3   | 0.7            | 0.7   | 0.5   | 0.5   | 0.3   |
| Wall            |      | 0.5              | 0.3   | 0.5   | 0.3   | 0.3   | 0.5            | 0.3   | 0.5   | 0.3   | 0.3   |
| Reference plane |      | 0.2              | 0.2   | 0.2   | 0.2   | 0.2   | 0.2            | 0.2   | 0.2   | 0.2   | 0.2   |
| Room dimensions |      | Viewed crosswise |       |       |       |       | Viewed endwise |       |       |       |       |
| X=2H            | Y=2H | 18.03            | 19.62 | 18.40 | 19.93 | 20.24 | 18.54          | 20.12 | 18.90 | 20.43 | 20.75 |
|                 | 3H   | 19.47            | 20.90 | 19.85 | 21.23 | 21.59 | 19.91          | 21.33 | 20.29 | 21.66 | 22.02 |
|                 | 4H   | 19.89            | 21.23 | 20.29 | 21.57 | 21.95 | 20.25          | 21.59 | 20.65 | 21.94 | 22.31 |
|                 | 6H   | 20.09            | 21.32 | 20.50 | 21.69 | 22.08 | 20.38          | 21.61 | 20.79 | 21.98 | 22.37 |
|                 | 8H   | 20.11            | 21.29 | 20.53 | 21.68 | 22.08 | 20.39          | 21.57 | 20.82 | 21.96 | 22.36 |
|                 | 12H  | 20.10            | 21.23 | 20.53 | 21.61 | 22.04 | 20.40          | 21.52 | 20.83 | 21.91 | 22.33 |
| 4H              | 2H   | 18.63            | 19.97 | 19.03 | 20.32 | 20.69 | 19.04          | 20.38 | 19.44 | 20.72 | 21.10 |
|                 | 3H   | 20.25            | 21.36 | 20.66 | 21.75 | 22.16 | 20.60          | 21.71 | 21.01 | 22.10 | 22.50 |
|                 | 4H   | 20.74            | 21.74 | 21.18 | 22.16 | 22.60 | 21.02          | 22.01 | 21.45 | 22.43 | 22.87 |
|                 | 6H   | 21.01            | 21.88 | 21.47 | 22.32 | 22.78 | 21.21          | 22.07 | 21.66 | 22.52 | 22.97 |
|                 | 8H   | 21.05            | 21.86 | 21.51 | 22.31 | 22.77 | 21.23          | 22.04 | 21.70 | 22.49 | 22.95 |
|                 | 12H  | 21.06            | 21.78 | 21.54 | 22.26 | 22.73 | 21.25          | 21.98 | 21.73 | 22.46 | 22.93 |
| 8H              | 4H   | 20.92            | 21.73 | 21.38 | 22.18 | 22.64 | 21.17          | 21.98 | 21.63 | 22.42 | 22.89 |
|                 | 6H   | 21.24            | 21.91 | 21.73 | 22.40 | 22.87 | 21.40          | 22.07 | 21.89 | 22.56 | 23.03 |
|                 | 8H   | 21.30            | 21.90 | 21.81 | 22.41 | 22.89 | 21.45          | 22.05 | 21.96 | 22.56 | 23.04 |
|                 | 12H  | 21.33            | 21.86 | 21.84 | 22.35 | 22.91 | 21.49          | 22.02 | 22.00 | 22.51 | 23.08 |
| 12H             | 4H   | 20.91            | 21.64 | 21.40 | 22.12 | 22.59 | 21.16          | 21.89 | 21.64 | 22.37 | 22.84 |
|                 | 6H   | 21.23            | 21.83 | 21.74 | 22.34 | 22.82 | 21.39          | 21.99 | 21.90 | 22.50 | 22.98 |
|                 | 8H   | 21.32            | 21.85 | 21.83 | 22.34 | 22.90 | 21.47          | 22.00 | 21.98 | 22.49 | 23.05 |