

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: P1498866

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

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498866  
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-STD-30-90  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 STD ambient , STD exam illumination levels  
Light Source: -  
Ballast/Driver: -

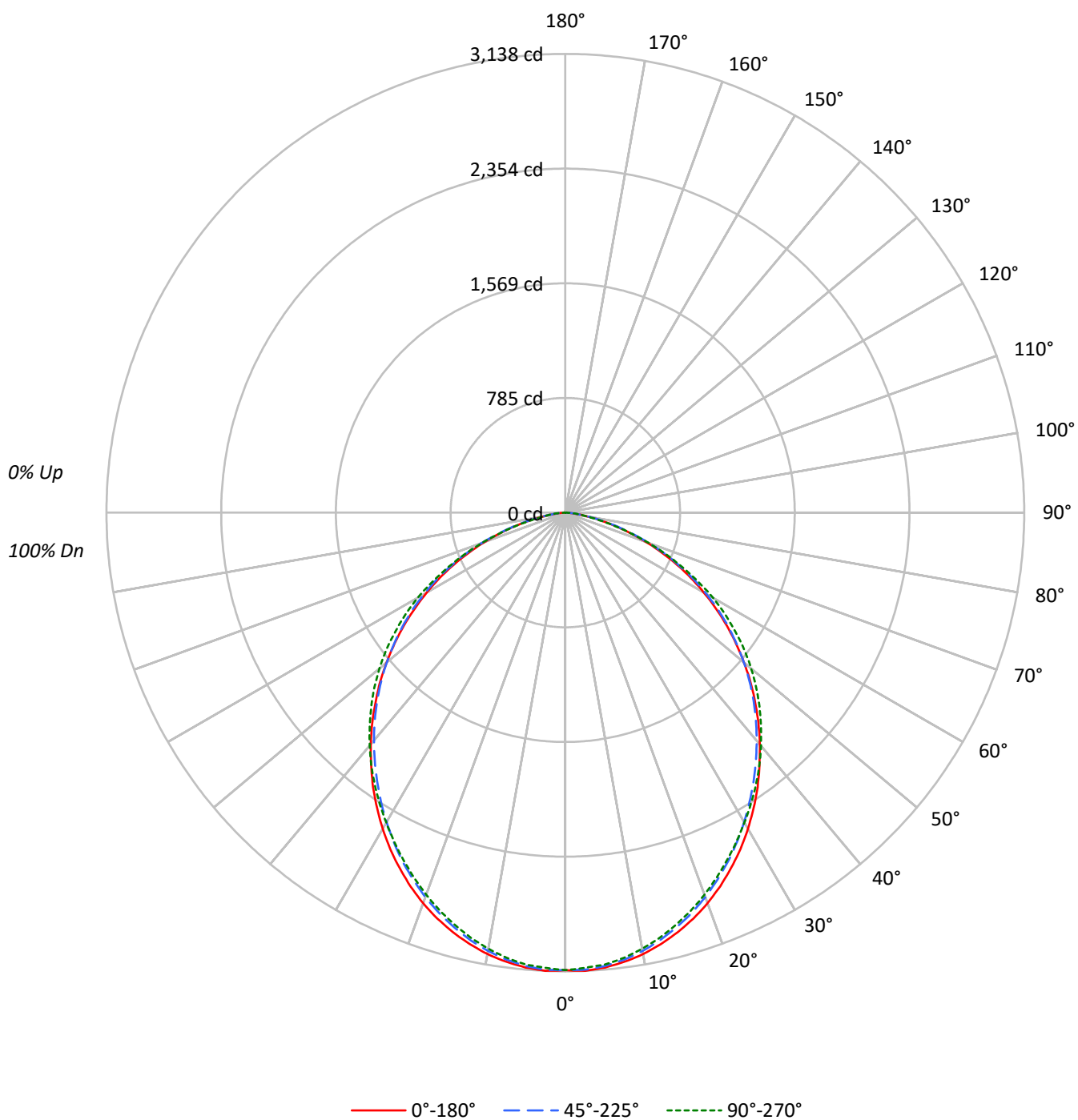
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7692.0 lumens  
Efficiency: N/A  
Efficacy: 88.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 87.1  
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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 110 | 105 | 101 | 98  | 107 | 103 | 99  | 96  | 99  | 96  | 93  |  | 95  | 92  | 90  |  | 91  |
| 2   | 100 | 92  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  |  | 84  | 80  | 76  |  | 81  |
| 3   | 92  | 82  | 74  | 68  | 89  | 80  | 73  | 67  | 77  | 71  | 66  |  | 74  | 69  | 65  |  | 72  |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 57  |  | 67  | 61  | 56  |  | 64  |
| 5   | 78  | 65  | 56  | 50  | 75  | 64  | 56  | 50  | 62  | 55  | 49  |  | 60  | 54  | 49  |  | 58  |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 43  |  | 54  | 48  | 43  |  | 53  |
| 7   | 67  | 53  | 45  | 39  | 65  | 53  | 44  | 39  | 51  | 44  | 38  |  | 50  | 43  | 38  |  | 48  |
| 8   | 62  | 49  | 40  | 35  | 60  | 48  | 40  | 35  | 47  | 40  | 34  |  | 46  | 39  | 34  |  | 44  |
| 9   | 58  | 45  | 37  | 31  | 57  | 44  | 37  | 31  | 43  | 36  | 31  |  | 42  | 36  | 31  |  | 41  |
| 10  | 54  | 41  | 34  | 29  | 53  | 41  | 33  | 28  | 40  | 33  | 28  |  | 39  | 33  | 28  |  | 38  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 8422 | 8422 | 8422 |
| 5°  | 8437 | 8410 | 8381 |
| 10° | 8379 | 8321 | 8277 |
| 15° | 8277 | 8182 | 8134 |
| 20° | 8142 | 8014 | 7965 |
| 25° | 7964 | 7818 | 7781 |
| 30° | 7761 | 7596 | 7610 |
| 35° | 7530 | 7369 | 7464 |
| 40° | 7269 | 7150 | 7312 |
| 45° | 6985 | 6925 | 7142 |
| 50° | 6676 | 6672 | 6944 |
| 55° | 6326 | 6379 | 6658 |
| 60° | 5893 | 6005 | 6280 |
| 65° | 5354 | 5502 | 5628 |
| 70° | 4614 | 4787 | 4763 |
| 75° | 3667 | 3814 | 3585 |
| 80° | 2470 | 2521 | 2366 |
| 85° | 1272 | 1596 | 1954 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7142 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 294.6  | 3.8       |
| 10°-20°   | 827.5  | 10.8      |
| 20°-30°   | 1214.6 | 15.8      |
| 30°-40°   | 1413.3 | 18.4      |
| 40°-50°   | 1415.7 | 18.4      |
| 50°-60°   | 1223.0 | 15.9      |
| 60°-70°   | 851.7  | 11.1      |
| 70°-80°   | 384.1  | 5.0       |
| 80°-90°   | 67.4   | 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°    | 2336.8 | 30.4      |
| 0°-40°    | 3750.1 | 48.8      |
| 0°-60°    | 6388.8 | 83.1      |
| 0°-90°    | 7692.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7692.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3130 | 3130  | 3130 | 3130  | 3130 |      |
| 5°  | 3123 | 3110  | 3113 | 3098  | 3103 | 296  |
| 15° | 2971 | 2952  | 2937 | 2915  | 2920 | 837  |
| 25° | 2682 | 2657  | 2633 | 2611  | 2620 | 1235 |
| 35° | 2292 | 2262  | 2243 | 2251  | 2272 | 1432 |
| 45° | 1836 | 1813  | 1820 | 1854  | 1877 | 1416 |
| 55° | 1348 | 1332  | 1360 | 1403  | 1419 | 1204 |
| 65° | 841  | 837   | 864  | 880   | 884  | 831  |
| 75° | 353  | 355   | 367  | 354   | 345  | 379  |
| 85° | 41   | 44    | 52   | 60    | 63   | 61   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3129.8 | 3129.8 | 3129.8 | 3129.8 | 3129.8 |
| 2.5°  | 3137.6 | 3124.9 | 3129.8 | 3118.2 | 3116.2 |
| 5°    | 3123.4 | 3110.4 | 3113.3 | 3098.4 | 3102.7 |
| 7.5°  | 3099.2 | 3085.2 | 3084.3 | 3067.9 | 3071.7 |
| 10°   | 3066.3 | 3049.7 | 3045.2 | 3026.3 | 3029.2 |
| 12.5° | 3022.7 | 3005.3 | 2996.1 | 2974.6 | 2979.4 |
| 15°   | 2971.2 | 2951.9 | 2937.1 | 2915.4 | 2919.8 |
| 17.5° | 2911.6 | 2890.2 | 2872.2 | 2847.2 | 2854.4 |
| 20°   | 2843.3 | 2820.1 | 2798.6 | 2772.1 | 2781.5 |
| 22.5° | 2766.7 | 2742.2 | 2717.6 | 2693.6 | 2702.9 |
| 25°   | 2682.4 | 2657.3 | 2632.9 | 2610.9 | 2620.5 |
| 27.5° | 2593.7 | 2565.7 | 2541.0 | 2524.5 | 2535.4 |
| 30°   | 2497.6 | 2468.6 | 2444.5 | 2433.5 | 2449.0 |
| 32.5° | 2396.3 | 2367.5 | 2345.6 | 2343.9 | 2361.9 |
| 35°   | 2292.1 | 2261.7 | 2243.3 | 2251.2 | 2272.2 |
| 37.5° | 2180.1 | 2154.3 | 2140.6 | 2157.8 | 2179.2 |
| 40°   | 2069.2 | 2042.2 | 2035.4 | 2058.9 | 2081.4 |
| 42.5° | 1954.3 | 1930.2 | 1928.8 | 1959.6 | 1980.5 |
| 45°   | 1835.5 | 1812.9 | 1819.7 | 1854.0 | 1876.8 |
| 47.5° | 1718.6 | 1695.6 | 1708.7 | 1746.3 | 1771.1 |
| 50°   | 1594.6 | 1575.4 | 1593.7 | 1636.2 | 1658.8 |
| 52.5° | 1471.1 | 1452.8 | 1477.4 | 1522.4 | 1544.3 |
| 55°   | 1348.4 | 1331.6 | 1359.7 | 1403.4 | 1419.2 |
| 57.5° | 1221.3 | 1211.0 | 1240.4 | 1278.9 | 1295.4 |
| 60°   | 1094.9 | 1085.8 | 1115.8 | 1151.9 | 1166.8 |
| 62.5° | 968.3  | 962.3  | 991.2  | 1020.7 | 1026.0 |
| 65°   | 840.8  | 836.8  | 864.1  | 880.5  | 883.9  |
| 67.5° | 712.0  | 711.7  | 737.0  | 746.1  | 746.0  |
| 70°   | 586.4  | 584.6  | 608.4  | 611.6  | 605.4  |
| 72.5° | 464.2  | 466.3  | 482.3  | 479.8  | 469.4  |
| 75°   | 352.7  | 354.9  | 366.8  | 354.5  | 344.8  |
| 77.5° | 249.0  | 251.1  | 257.2  | 243.4  | 237.6  |
| 80°   | 159.4  | 164.3  | 162.7  | 156.7  | 152.7  |
| 82.5° | 89.2   | 94.4   | 92.9   | 100.5  | 103.9  |
| 85°   | 41.2   | 44.5   | 51.7   | 59.9   | 63.3   |
| 87.5° | 14.1   | 16.9   | 21.3   | 22.8   | 21.2   |
| 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 | 18.34            | 19.92 | 18.70 | 20.23 | 20.55 | 18.72          | 20.31 | 19.09 | 20.62 | 20.93 |
|                 | 3H   | 19.78            | 21.21 | 20.16 | 21.54 | 21.90 | 20.14          | 21.57 | 20.52 | 21.89 | 22.25 |
|                 | 4H   | 20.20            | 21.54 | 20.60 | 21.89 | 22.27 | 20.51          | 21.85 | 20.91 | 22.20 | 22.58 |
|                 | 6H   | 20.40            | 21.64 | 20.82 | 22.01 | 22.40 | 20.67          | 21.91 | 21.09 | 22.28 | 22.67 |
|                 | 8H   | 20.43            | 21.61 | 20.86 | 22.00 | 22.40 | 20.70          | 21.88 | 21.13 | 22.27 | 22.67 |
|                 | 12H  | 20.43            | 21.56 | 20.86 | 21.94 | 22.37 | 20.72          | 21.84 | 21.15 | 22.23 | 22.65 |
| 4H              | 2H   | 18.92            | 20.26 | 19.32 | 20.61 | 20.98 | 19.23          | 20.57 | 19.63 | 20.92 | 21.29 |
|                 | 3H   | 20.54            | 21.65 | 20.95 | 22.05 | 22.45 | 20.84          | 21.95 | 21.25 | 22.35 | 22.75 |
|                 | 4H   | 21.05            | 22.05 | 21.48 | 22.46 | 22.90 | 21.29          | 22.29 | 21.73 | 22.71 | 23.15 |
|                 | 6H   | 21.32            | 22.19 | 21.78 | 22.63 | 23.09 | 21.53          | 22.39 | 21.98 | 22.84 | 23.29 |
|                 | 8H   | 21.36            | 22.18 | 21.82 | 22.62 | 23.08 | 21.57          | 22.38 | 22.03 | 22.83 | 23.29 |
|                 | 12H  | 21.37            | 22.10 | 21.86 | 22.58 | 23.05 | 21.60          | 22.33 | 22.08 | 22.81 | 23.28 |
| 8H              | 4H   | 21.23            | 22.04 | 21.69 | 22.49 | 22.95 | 21.46          | 22.27 | 21.92 | 22.71 | 23.18 |
|                 | 6H   | 21.56            | 22.23 | 22.05 | 22.72 | 23.20 | 21.74          | 22.41 | 22.23 | 22.90 | 23.37 |
|                 | 8H   | 21.62            | 22.22 | 22.14 | 22.73 | 23.22 | 21.81          | 22.41 | 22.32 | 22.92 | 23.40 |
|                 | 12H  | 21.66            | 22.19 | 22.17 | 22.68 | 23.24 | 21.87          | 22.40 | 22.38 | 22.89 | 23.46 |
| 12H             | 4H   | 21.23            | 21.95 | 21.71 | 22.43 | 22.90 | 21.45          | 22.18 | 21.93 | 22.66 | 23.13 |
|                 | 6H   | 21.55            | 22.15 | 22.06 | 22.66 | 23.15 | 21.73          | 22.33 | 22.24 | 22.84 | 23.33 |
|                 | 8H   | 21.65            | 22.18 | 22.16 | 22.67 | 23.24 | 21.83          | 22.36 | 22.34 | 22.86 | 23.42 |