

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: P1498596

Luminaire Tested: MAE-G-2-120-2STD-STD-50-90

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498596  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: MAE-G-2-120-2STD-STD-50-90  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient , STD exam illumination levels  
Light Source: -  
Ballast/Driver: -

**Summary**

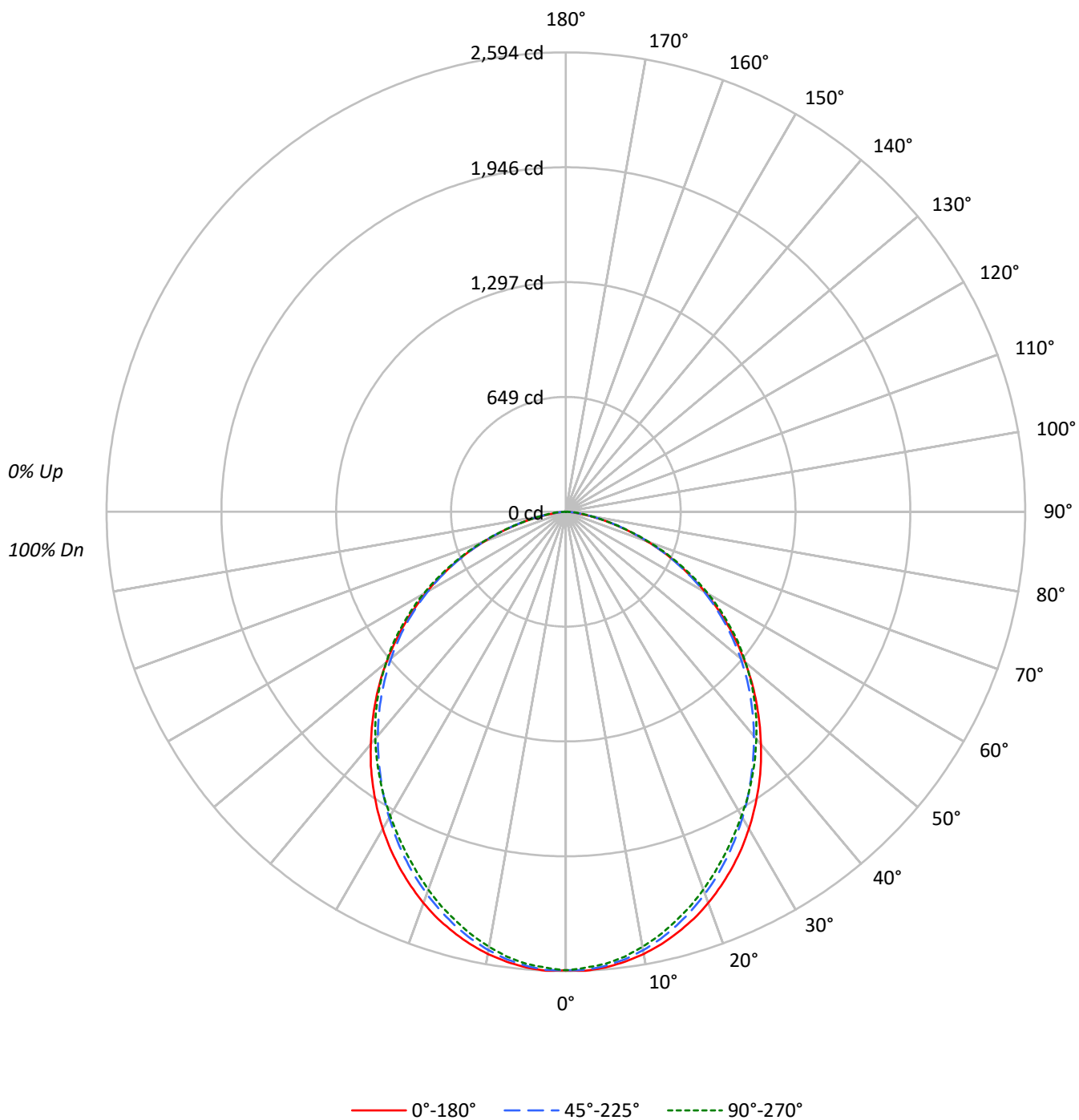
Lumens per Lamp: N/A  
Luminaire Lumens: 6291.0 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 69.6  
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  | 90  | 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  | 45  | 39  | 51  | 44  | 38  |  | 50  | 43  | 38  |  | 48  |
| 8   | 62  | 49  | 41  | 35  | 61  | 48  | 40  | 35  | 47  | 40  | 35  |  | 46  | 39  | 34  |  | 44  |
| 9   | 58  | 45  | 37  | 31  | 57  | 44  | 37  | 31  | 43  | 36  | 31  |  | 42  | 36  | 31  |  | 41  |
| 10  | 54  | 42  | 34  | 29  | 53  | 41  | 34  | 29  | 40  | 33  | 28  |  | 39  | 33  | 28  |  | 38  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6967 | 6967 | 6967 |
| 5°  | 6977 | 6954 | 6922 |
| 10° | 6929 | 6870 | 6815 |
| 15° | 6844 | 6738 | 6668 |
| 20° | 6733 | 6575 | 6503 |
| 25° | 6591 | 6395 | 6323 |
| 30° | 6424 | 6199 | 6161 |
| 35° | 6236 | 5996 | 6021 |
| 40° | 6020 | 5804 | 5879 |
| 45° | 5788 | 5608 | 5731 |
| 50° | 5534 | 5397 | 5544 |
| 55° | 5242 | 5147 | 5315 |
| 60° | 4892 | 4836 | 5014 |
| 65° | 4450 | 4427 | 4558 |
| 70° | 3844 | 3875 | 3945 |
| 75° | 3065 | 3157 | 3144 |
| 80° | 2080 | 2218 | 2252 |
| 85° | 1074 | 1504 | 1927 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5788 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 243.4  | 3.9       |
| 10°-20°   | 681.3  | 10.8      |
| 20°-30°   | 995.5  | 15.8      |
| 30°-40°   | 1153.6 | 18.3      |
| 40°-50°   | 1150.8 | 18.3      |
| 50°-60°   | 990.8  | 15.7      |
| 60°-70°   | 692.3  | 11.0      |
| 70°-80°   | 321.9  | 5.1       |
| 80°-90°   | 61.4   | 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       |
| <hr/>     |        |           |
| 0°-30°    | 1920.2 | 30.5      |
| 0°-40°    | 3073.9 | 48.9      |
| 0°-60°    | 5215.5 | 82.9      |
| 0°-90°    | 6291.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6291.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2589 | 2589  | 2589 | 2589  | 2589 |      |
| 5°  | 2583 | 2574  | 2574 | 2559  | 2562 | 245  |
| 15° | 2457 | 2439  | 2418 | 2392  | 2393 | 692  |
| 25° | 2220 | 2193  | 2154 | 2127  | 2129 | 1022 |
| 35° | 1898 | 1864  | 1825 | 1822  | 1833 | 1186 |
| 45° | 1521 | 1490  | 1474 | 1491  | 1506 | 1173 |
| 55° | 1117 | 1093  | 1097 | 1122  | 1133 | 998  |
| 65° | 699  | 686   | 695  | 708   | 716  | 691  |
| 75° | 295  | 291   | 304  | 303   | 302  | 317  |
| 85° | 35   | 39    | 49   | 58    | 62   | 51   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2589.1 | 2589.1 | 2589.1 | 2589.1 | 2589.1 |
| 2.5°  | 2594.2 | 2586.2 | 2589.1 | 2577.2 | 2576.9 |
| 5°    | 2582.9 | 2573.9 | 2574.4 | 2558.9 | 2562.5 |
| 7.5°  | 2563.2 | 2552.5 | 2548.9 | 2531.3 | 2534.5 |
| 10°   | 2535.6 | 2522.3 | 2514.1 | 2492.5 | 2494.0 |
| 12.5° | 2500.3 | 2485.2 | 2471.1 | 2446.0 | 2448.6 |
| 15°   | 2456.6 | 2439.2 | 2418.5 | 2392.0 | 2393.3 |
| 17.5° | 2408.2 | 2389.2 | 2360.4 | 2332.2 | 2336.2 |
| 20°   | 2351.1 | 2330.0 | 2296.1 | 2266.7 | 2270.7 |
| 22.5° | 2287.7 | 2263.7 | 2228.2 | 2198.9 | 2200.8 |
| 25°   | 2219.9 | 2193.3 | 2153.8 | 2126.8 | 2129.4 |
| 27.5° | 2146.5 | 2116.8 | 2076.1 | 2051.8 | 2056.4 |
| 30°   | 2067.5 | 2036.1 | 1994.9 | 1976.3 | 1982.9 |
| 32.5° | 1984.3 | 1952.1 | 1911.8 | 1900.8 | 1910.9 |
| 35°   | 1898.2 | 1863.8 | 1825.1 | 1821.7 | 1832.8 |
| 37.5° | 1808.5 | 1774.6 | 1739.4 | 1743.2 | 1754.8 |
| 40°   | 1713.7 | 1681.7 | 1652.2 | 1661.1 | 1673.6 |
| 42.5° | 1618.2 | 1587.4 | 1563.9 | 1578.0 | 1591.6 |
| 45°   | 1520.9 | 1490.1 | 1473.7 | 1491.3 | 1505.8 |
| 47.5° | 1423.9 | 1393.0 | 1382.9 | 1403.6 | 1416.7 |
| 50°   | 1322.0 | 1294.1 | 1289.1 | 1311.7 | 1324.3 |
| 52.5° | 1219.0 | 1193.1 | 1193.8 | 1218.5 | 1234.2 |
| 55°   | 1117.4 | 1093.2 | 1097.0 | 1121.6 | 1132.8 |
| 57.5° | 1013.0 | 993.3  | 999.4  | 1021.7 | 1032.9 |
| 60°   | 909.0  | 890.8  | 898.6  | 920.3  | 931.6  |
| 62.5° | 803.8  | 787.7  | 797.7  | 816.4  | 824.2  |
| 65°   | 698.8  | 686.3  | 695.3  | 708.1  | 715.8  |
| 67.5° | 595.4  | 583.7  | 594.3  | 607.3  | 610.4  |
| 70°   | 488.6  | 480.8  | 492.5  | 500.9  | 501.4  |
| 72.5° | 390.2  | 382.8  | 394.7  | 399.0  | 397.6  |
| 75°   | 294.8  | 290.7  | 303.6  | 302.7  | 302.4  |
| 77.5° | 208.2  | 209.1  | 216.9  | 216.6  | 216.8  |
| 80°   | 134.2  | 138.8  | 143.1  | 145.8  | 145.3  |
| 82.5° | 75.6   | 80.1   | 85.4   | 96.2   | 100.4  |
| 85°   | 34.8   | 39.3   | 48.7   | 58.4   | 62.4   |
| 87.5° | 11.7   | 15.3   | 20.4   | 22.1   | 20.9   |
| 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 | 17.67            | 19.26 | 18.04 | 19.57 | 19.88 | 17.86          | 19.44 | 18.22 | 19.76 | 20.07 |
|                 | 3H   | 19.14            | 20.56 | 19.52 | 20.89 | 21.25 | 19.34          | 20.76 | 19.72 | 21.09 | 21.45 |
|                 | 4H   | 19.57            | 20.90 | 19.96 | 21.25 | 21.63 | 19.77          | 21.10 | 20.17 | 21.45 | 21.83 |
|                 | 6H   | 19.77            | 21.01 | 20.19 | 21.38 | 21.77 | 19.99          | 21.22 | 20.40 | 21.59 | 21.98 |
|                 | 8H   | 19.80            | 20.98 | 20.23 | 21.37 | 21.77 | 20.04          | 21.22 | 20.46 | 21.61 | 22.01 |
|                 | 12H  | 19.80            | 20.93 | 20.23 | 21.31 | 21.74 | 20.07          | 21.20 | 20.50 | 21.58 | 22.01 |
| 4H              | 2H   | 18.23            | 19.56 | 18.62 | 19.91 | 20.29 | 18.38          | 19.72 | 18.78 | 20.06 | 20.44 |
|                 | 3H   | 19.87            | 20.98 | 20.28 | 21.38 | 21.78 | 20.05          | 21.16 | 20.46 | 21.56 | 21.96 |
|                 | 4H   | 20.38            | 21.38 | 20.81 | 21.80 | 22.24 | 20.57          | 21.57 | 21.00 | 21.98 | 22.42 |
|                 | 6H   | 20.67            | 21.54 | 21.13 | 21.98 | 22.44 | 20.87          | 21.74 | 21.32 | 22.18 | 22.64 |
|                 | 8H   | 20.71            | 21.53 | 21.18 | 21.97 | 22.44 | 20.94          | 21.76 | 21.40 | 22.20 | 22.67 |
|                 | 12H  | 20.73            | 21.46 | 21.21 | 21.93 | 22.40 | 21.00          | 21.73 | 21.48 | 22.20 | 22.67 |
| 8H              | 4H   | 20.57            | 21.39 | 21.04 | 21.83 | 22.30 | 20.74          | 21.55 | 21.20 | 22.00 | 22.46 |
|                 | 6H   | 20.92            | 21.59 | 21.41 | 22.08 | 22.56 | 21.10          | 21.78 | 21.60 | 22.27 | 22.74 |
|                 | 8H   | 20.99            | 21.59 | 21.50 | 22.10 | 22.59 | 21.21          | 21.82 | 21.73 | 22.32 | 22.81 |
|                 | 12H  | 21.03            | 21.56 | 21.54 | 22.05 | 22.61 | 21.31          | 21.84 | 21.82 | 22.34 | 22.90 |
| 12H             | 4H   | 20.57            | 21.30 | 21.06 | 21.78 | 22.25 | 20.74          | 21.47 | 21.22 | 21.94 | 22.41 |
|                 | 6H   | 20.92            | 21.52 | 21.43 | 22.03 | 22.52 | 21.10          | 21.70 | 21.61 | 22.21 | 22.70 |
|                 | 8H   | 21.03            | 21.56 | 21.54 | 22.05 | 22.61 | 21.25          | 21.78 | 21.76 | 22.27 | 22.84 |

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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