

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: P1498413

Luminaire Tested: MAE-G-2-120-2LO-30

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498413  
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-2-120-2LO-30  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient illumination levels  
Light Source: -  
Ballast/Driver: -

**Summary**

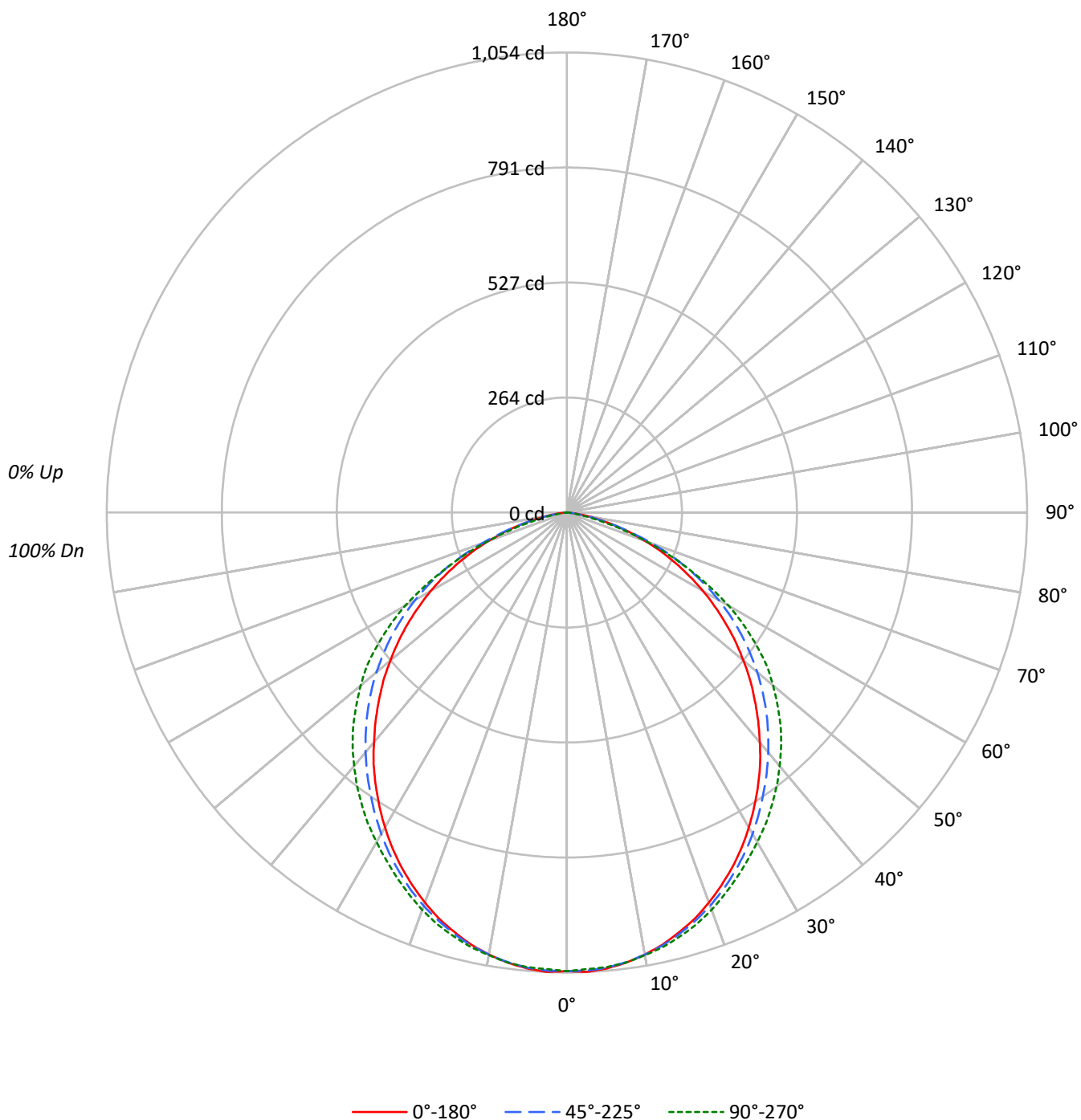
Lumens per Lamp: N/A  
Luminaire Lumens: 2652.0 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 24.5  
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 | 100 |    |    |
| 1   | 110 | 105 | 102 | 98  | 107 | 103 | 100 | 97  | 99  | 96  | 93  | 95  | 93  | 91  | 92  | 90  | 88  | 86  |    |    |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |    |    |
| 3   | 92  | 82  | 74  | 68  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 75  | 69  | 65  | 72  | 68  | 64  | 62  |    |    |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 64  | 58  | 69  | 62  | 57  | 67  | 61  | 56  | 65  | 59  | 55  | 53  |    |    |
| 5   | 78  | 65  | 57  | 50  | 76  | 64  | 56  | 50  | 62  | 55  | 49  | 60  | 54  | 49  | 58  | 53  | 48  | 46  |    |    |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 43  | 54  | 48  | 43  | 53  | 47  | 43  | 41  |    |    |
| 7   | 67  | 53  | 45  | 39  | 65  | 53  | 45  | 39  | 51  | 44  | 38  | 50  | 43  | 38  | 48  | 42  | 38  | 36  |    |    |
| 8   | 62  | 49  | 40  | 35  | 60  | 48  | 40  | 35  | 47  | 40  | 34  | 46  | 39  | 34  | 44  | 38  | 34  | 32  |    |    |
| 9   | 58  | 45  | 37  | 31  | 57  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 31  | 29  |    |    |
| 10  | 54  | 41  | 34  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |    |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2827 | 2827 | 2827 |
| 5°  | 2832 | 2827 | 2824 |
| 10° | 2810 | 2810 | 2814 |
| 15° | 2773 | 2783 | 2800 |
| 20° | 2724 | 2746 | 2775 |
| 25° | 2663 | 2698 | 2738 |
| 30° | 2590 | 2643 | 2709 |
| 35° | 2508 | 2578 | 2689 |
| 40° | 2415 | 2520 | 2663 |
| 45° | 2316 | 2457 | 2634 |
| 50° | 2209 | 2384 | 2581 |
| 55° | 2087 | 2288 | 2484 |
| 60° | 1939 | 2160 | 2306 |
| 65° | 1749 | 1962 | 1974 |
| 70° | 1493 | 1633 | 1526 |
| 75° | 1173 | 1183 | 953  |
| 80° | 762  | 609  | 366  |
| 85° | 352  | 232  | 188  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2634 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 99.2   | 3.7       |
| 10°-20°   | 281.4  | 10.6      |
| 20°-30°   | 418.1  | 15.8      |
| 30°-40°   | 492.4  | 18.6      |
| 40°-50°   | 498.9  | 18.8      |
| 50°-60°   | 434.2  | 16.4      |
| 60°-70°   | 295.9  | 11.2      |
| 70°-80°   | 118.3  | 4.5       |
| 80°-90°   | 13.5   | 0.5       |
| 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°    | 798.7  | 30.1      |
| 0°-40°    | 1291.2 | 48.7      |
| 0°-60°    | 2224.3 | 83.9      |
| 0°-90°    | 2652.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2652.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1051 | 1051  | 1051 | 1051  | 1051 |      |
| 5°  | 1048 | 1042  | 1047 | 1045  | 1046 | 99   |
| 15° | 995  | 991   | 999  | 1002  | 1005 | 281  |
| 25° | 897  | 897   | 909  | 916   | 922  | 413  |
| 35° | 763  | 767   | 785  | 806   | 818  | 477  |
| 45° | 609  | 616   | 646  | 676   | 692  | 470  |
| 55° | 445  | 454   | 488  | 518   | 529  | 397  |
| 65° | 275  | 288   | 308  | 309   | 310  | 272  |
| 75° | 113  | 120   | 114  | 98    | 92   | 121  |
| 85° | 11   | 10    | 8    | 7     | 6    | 18   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1050.6 | 1050.6 | 1050.6 | 1050.6 | 1050.6 |
| 2.5°  | 1053.5 | 1046.7 | 1050.6 | 1049.9 | 1047.0 |
| 5°    | 1048.5 | 1042.4 | 1046.7 | 1045.3 | 1045.6 |
| 7.5°  | 1040.3 | 1034.6 | 1039.2 | 1038.8 | 1039.9 |
| 10°   | 1028.5 | 1022.8 | 1028.5 | 1028.8 | 1029.9 |
| 12.5° | 1013.8 | 1008.9 | 1015.7 | 1017.1 | 1019.6 |
| 15°   | 995.3  | 991.1  | 998.9  | 1002.5 | 1004.9 |
| 17.5° | 975.4  | 972.5  | 980.3  | 985.0  | 988.9  |
| 20°   | 951.1  | 949.7  | 959.0  | 963.5  | 968.9  |
| 22.5° | 924.7  | 924.0  | 935.1  | 940.8  | 946.1  |
| 25°   | 896.8  | 897.2  | 908.7  | 916.1  | 922.2  |
| 27.5° | 866.2  | 866.9  | 880.8  | 889.7  | 897.2  |
| 30°   | 833.4  | 835.2  | 850.5  | 862.6  | 871.9  |
| 32.5° | 798.7  | 802.0  | 818.4  | 835.2  | 846.9  |
| 35°   | 763.4  | 767.0  | 784.9  | 805.5  | 818.4  |
| 37.5° | 727.1  | 731.0  | 751.7  | 776.0  | 789.5  |
| 40°   | 687.5  | 693.5  | 717.4  | 744.2  | 758.1  |
| 42.5° | 648.5  | 655.3  | 682.1  | 711.4  | 726.4  |
| 45°   | 608.6  | 616.1  | 645.7  | 676.1  | 692.1  |
| 47.5° | 570.1  | 576.5  | 608.2  | 640.0  | 654.3  |
| 50°   | 527.7  | 536.2  | 569.4  | 601.1  | 616.4  |
| 52.5° | 487.0  | 495.2  | 529.1  | 561.5  | 577.3  |
| 55°   | 444.9  | 454.5  | 487.7  | 518.4  | 529.4  |
| 57.5° | 402.4  | 413.5  | 445.6  | 470.9  | 480.5  |
| 60°   | 360.3  | 371.4  | 401.3  | 421.3  | 428.5  |
| 62.5° | 317.8  | 329.3  | 355.7  | 367.8  | 369.3  |
| 65°   | 274.7  | 287.6  | 308.2  | 308.6  | 310.0  |
| 67.5° | 233.7  | 244.4  | 259.3  | 255.1  | 252.9  |
| 70°   | 189.8  | 201.5  | 207.6  | 199.1  | 194.0  |
| 72.5° | 150.9  | 159.4  | 158.4  | 145.9  | 139.9  |
| 75°   | 112.8  | 119.5  | 113.8  | 97.8   | 91.7   |
| 77.5° | 78.1   | 83.8   | 72.4   | 57.4   | 51.4   |
| 80°   | 49.2   | 51.7   | 39.3   | 27.8   | 23.6   |
| 82.5° | 26.4   | 26.0   | 16.8   | 13.9   | 12.9   |
| 85°   | 11.4   | 10.3   | 7.5    | 6.8    | 6.1    |
| 87.5° | 3.9    | 3.5    | 2.8    | 2.5    | 2.1    |
| 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 | 14.53            | 16.11 | 14.89 | 16.42 | 16.74 | 15.49          | 17.07 | 15.85 | 17.38 | 17.70 |
|                 | 3H   | 15.95            | 17.37 | 16.33 | 17.70 | 18.06 | 16.68          | 18.10 | 17.05 | 18.42 | 18.79 |
|                 | 4H   | 16.34            | 17.67 | 16.74 | 18.02 | 18.40 | 16.89          | 18.22 | 17.29 | 18.57 | 18.95 |
|                 | 6H   | 16.51            | 17.75 | 16.93 | 18.11 | 18.50 | 16.91          | 18.14 | 17.32 | 18.51 | 18.90 |
|                 | 8H   | 16.53            | 17.70 | 16.95 | 18.09 | 18.49 | 16.89          | 18.06 | 17.31 | 18.45 | 18.85 |
|                 | 12H  | 16.52            | 17.64 | 16.95 | 18.02 | 18.45 | 16.86          | 17.98 | 17.29 | 18.37 | 18.79 |
| 4H              | 2H   | 15.19            | 16.52 | 15.59 | 16.87 | 17.25 | 15.96          | 17.29 | 16.36 | 17.64 | 18.02 |
|                 | 3H   | 16.77            | 17.87 | 17.18 | 18.27 | 18.67 | 17.31          | 18.42 | 17.72 | 18.81 | 19.21 |
|                 | 4H   | 17.24            | 18.23 | 17.67 | 18.65 | 19.09 | 17.58          | 18.57 | 18.01 | 18.99 | 19.42 |
|                 | 6H   | 17.48            | 18.34 | 17.94 | 18.78 | 19.24 | 17.63          | 18.49 | 18.09 | 18.93 | 19.39 |
|                 | 8H   | 17.50            | 18.31 | 17.97 | 18.75 | 19.22 | 17.61          | 18.41 | 18.07 | 18.85 | 19.32 |
|                 | 12H  | 17.50            | 18.22 | 17.98 | 18.70 | 19.17 | 17.59          | 18.30 | 18.07 | 18.78 | 19.25 |
| 8H              | 4H   | 17.38            | 18.18 | 17.84 | 18.62 | 19.09 | 17.69          | 18.50 | 18.16 | 18.94 | 19.41 |
|                 | 6H   | 17.65            | 18.31 | 18.15 | 18.80 | 19.28 | 17.75          | 18.41 | 18.25 | 18.90 | 19.38 |
|                 | 8H   | 17.69            | 18.28 | 18.20 | 18.79 | 19.28 | 17.73          | 18.32 | 18.24 | 18.83 | 19.32 |
|                 | 12H  | 17.70            | 18.22 | 18.21 | 18.72 | 19.28 | 17.72          | 18.24 | 18.22 | 18.73 | 19.29 |
| 12H             | 4H   | 17.36            | 18.08 | 17.84 | 18.55 | 19.02 | 17.68          | 18.40 | 18.16 | 18.88 | 19.35 |
|                 | 6H   | 17.62            | 18.22 | 18.14 | 18.72 | 19.21 | 17.73          | 18.32 | 18.24 | 18.83 | 19.32 |
|                 | 8H   | 17.69            | 18.21 | 18.20 | 18.70 | 19.26 | 17.73          | 18.25 | 18.24 | 18.74 | 19.31 |