

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: P1499565

Luminaire Tested: MAE-G-4-120-3LO-30

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1499565  
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-4-120-3LO-30  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 LO ambient illumination levels  
Light Source: -  
Ballast/Driver: -

**Summary**

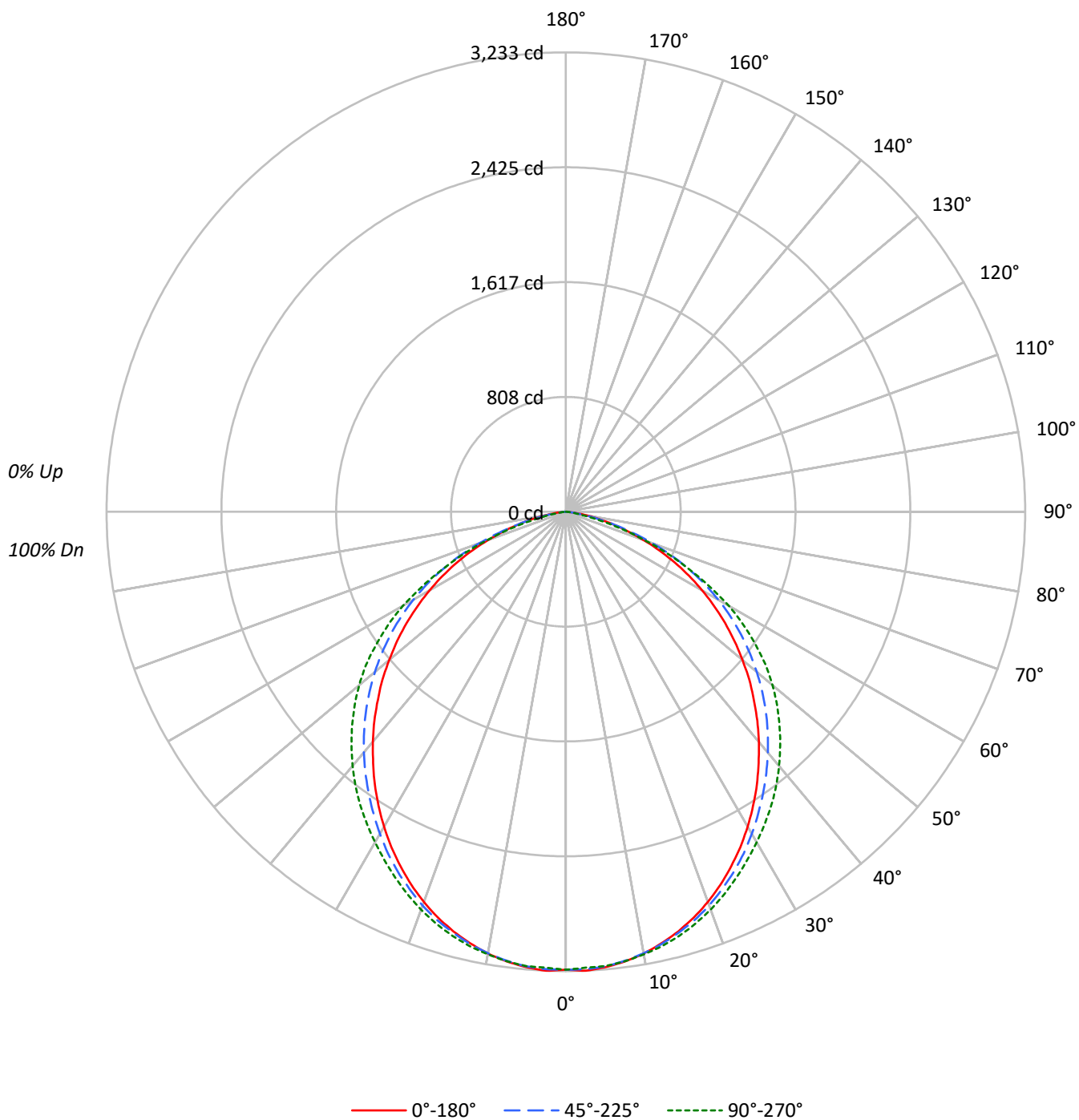
Lumens per Lamp: N/A  
Luminaire Lumens: 8168.0 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 72  
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 | 96  | 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  | 57  | 69  | 62  | 57  | 67  | 61  | 56  | 65  | 59  | 55  | 53  |    |    |
| 5   | 78  | 65  | 56  | 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  | 44  | 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  | 36  | 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°  | 4336 | 4336 | 4336 |
| 5°  | 4346 | 4336 | 4334 |
| 10° | 4314 | 4311 | 4322 |
| 15° | 4259 | 4272 | 4303 |
| 20° | 4184 | 4223 | 4267 |
| 25° | 4087 | 4153 | 4218 |
| 30° | 3977 | 4067 | 4173 |
| 35° | 3852 | 3974 | 4141 |
| 40° | 3712 | 3884 | 4100 |
| 45° | 3560 | 3788 | 4048 |
| 50° | 3395 | 3671 | 3976 |
| 55° | 3213 | 3529 | 3823 |
| 60° | 2982 | 3334 | 3567 |
| 65° | 2692 | 3041 | 3055 |
| 70° | 2298 | 2554 | 2375 |
| 75° | 1805 | 1863 | 1461 |
| 80° | 1178 | 958  | 566  |
| 85° | 565  | 378  | 299  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4048 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 304.4  | 3.7       |
| 10°-20°   | 864.2  | 10.6      |
| 20°-30°   | 1285.4 | 15.7      |
| 30°-40°   | 1514.7 | 18.5      |
| 40°-50°   | 1535.7 | 18.8      |
| 50°-60°   | 1338.2 | 16.4      |
| 60°-70°   | 915.2  | 11.2      |
| 70°-80°   | 367.6  | 4.5       |
| 80°-90°   | 42.6   | 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°    | 2454.0 | 30.0      |
| 0°-40°    | 3968.7 | 48.6      |
| 0°-60°    | 6842.6 | 83.8      |
| 0°-90°    | 8168.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 8168.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3223 | 3223  | 3223 | 3223  | 3223 |      |
| 5°  | 3217 | 3198  | 3211 | 3207  | 3209 | 305  |
| 15° | 3057 | 3044  | 3067 | 3080  | 3089 | 861  |
| 25° | 2753 | 2754  | 2797 | 2817  | 2841 | 1268 |
| 35° | 2345 | 2355  | 2420 | 2479  | 2521 | 1465 |
| 45° | 1871 | 1896  | 1991 | 2080  | 2127 | 1444 |
| 55° | 1370 | 1399  | 1504 | 1599  | 1630 | 1223 |
| 65° | 846  | 884   | 955  | 963   | 960  | 836  |
| 75° | 347  | 370   | 358  | 308   | 281  | 373  |
| 85° | 37   | 33    | 24   | 22    | 19   | 56   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3222.7 | 3222.7 | 3222.7 | 3222.7 | 3222.7 |
| 2.5°  | 3233.1 | 3211.5 | 3222.7 | 3220.4 | 3212.2 |
| 5°    | 3217.4 | 3198.0 | 3210.7 | 3207.1 | 3209.2 |
| 7.5°  | 3192.1 | 3174.3 | 3187.6 | 3187.0 | 3190.6 |
| 10°   | 3157.2 | 3139.2 | 3155.7 | 3158.6 | 3163.1 |
| 12.5° | 3110.9 | 3096.1 | 3116.2 | 3122.1 | 3131.0 |
| 15°   | 3057.2 | 3043.9 | 3066.9 | 3079.6 | 3089.3 |
| 17.5° | 2994.6 | 2983.4 | 3013.2 | 3025.2 | 3038.6 |
| 20°   | 2922.3 | 2914.2 | 2949.2 | 2960.4 | 2979.8 |
| 22.5° | 2841.9 | 2837.5 | 2873.9 | 2891.0 | 2913.4 |
| 25°   | 2753.2 | 2754.0 | 2797.1 | 2817.4 | 2841.1 |
| 27.5° | 2660.1 | 2661.6 | 2710.8 | 2739.0 | 2764.4 |
| 30°   | 2559.5 | 2563.9 | 2617.6 | 2652.7 | 2686.1 |
| 32.5° | 2452.9 | 2461.8 | 2520.0 | 2567.7 | 2604.9 |
| 35°   | 2344.9 | 2355.3 | 2419.5 | 2479.0 | 2521.4 |
| 37.5° | 2228.0 | 2245.1 | 2317.4 | 2388.2 | 2432.0 |
| 40°   | 2113.2 | 2130.3 | 2211.5 | 2289.7 | 2334.5 |
| 42.5° | 1994.8 | 2016.3 | 2102.8 | 2189.9 | 2233.1 |
| 45°   | 1871.1 | 1896.3 | 1991.0 | 2080.4 | 2127.3 |
| 47.5° | 1752.5 | 1774.9 | 1874.7 | 1967.9 | 2016.3 |
| 50°   | 1622.1 | 1650.4 | 1754.0 | 1851.6 | 1899.4 |
| 52.5° | 1497.7 | 1523.7 | 1630.3 | 1730.3 | 1773.4 |
| 55°   | 1369.6 | 1398.6 | 1504.5 | 1599.0 | 1629.6 |
| 57.5° | 1238.3 | 1273.4 | 1375.5 | 1454.6 | 1483.6 |
| 60°   | 1108.1 | 1143.0 | 1239.1 | 1304.0 | 1325.6 |
| 62.5° | 978.3  | 1015.7 | 1099.8 | 1143.0 | 1143.0 |
| 65°   | 845.7  | 883.7  | 955.2  | 962.6  | 959.7  |
| 67.5° | 713.1  | 751.2  | 805.5  | 792.0  | 783.1  |
| 70°   | 584.2  | 616.9  | 649.1  | 624.4  | 603.6  |
| 72.5° | 459.0  | 490.3  | 495.6  | 459.8  | 433.6  |
| 75°   | 347.2  | 370.4  | 358.4  | 307.8  | 281.0  |
| 77.5° | 242.1  | 255.6  | 230.2  | 178.9  | 157.3  |
| 80°   | 152.0  | 157.9  | 123.7  | 87.1   | 73.0   |
| 82.5° | 82.0   | 82.7   | 53.7   | 44.0   | 41.0   |
| 85°   | 36.6   | 32.8   | 24.5   | 21.6   | 19.4   |
| 87.5° | 12.7   | 11.2   | 8.9    | 8.2    | 6.8    |
| 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 | 16.02            | 17.61 | 16.39 | 17.92 | 18.23 | 17.01          | 18.59 | 17.37 | 18.90 | 19.22 |
|                 | 3H   | 17.43            | 18.85 | 17.81 | 19.18 | 19.54 | 18.21          | 19.63 | 18.59 | 19.96 | 20.32 |
|                 | 4H   | 17.83            | 19.16 | 18.23 | 19.51 | 19.89 | 18.43          | 19.76 | 18.83 | 20.11 | 20.49 |
|                 | 6H   | 18.00            | 19.23 | 18.41 | 19.60 | 19.99 | 18.44          | 19.68 | 18.86 | 20.04 | 20.43 |
|                 | 8H   | 18.02            | 19.19 | 18.44 | 19.58 | 19.98 | 18.42          | 19.60 | 18.85 | 19.98 | 20.38 |
|                 | 12H  | 18.01            | 19.13 | 18.44 | 19.51 | 19.94 | 18.40          | 19.52 | 18.83 | 19.90 | 20.33 |
| 4H              | 2H   | 16.69            | 18.03 | 17.09 | 18.38 | 18.75 | 17.48          | 18.82 | 17.88 | 19.17 | 19.54 |
|                 | 3H   | 18.26            | 19.37 | 18.67 | 19.77 | 20.17 | 18.85          | 19.96 | 19.26 | 20.36 | 20.76 |
|                 | 4H   | 18.74            | 19.73 | 19.17 | 20.15 | 20.58 | 19.13          | 20.12 | 19.56 | 20.53 | 20.97 |
|                 | 6H   | 18.98            | 19.84 | 19.43 | 20.28 | 20.74 | 19.18          | 20.04 | 19.63 | 20.48 | 20.94 |
|                 | 8H   | 19.00            | 19.81 | 19.46 | 20.25 | 20.72 | 19.15          | 19.96 | 19.62 | 20.40 | 20.87 |
|                 | 12H  | 19.00            | 19.72 | 19.48 | 20.20 | 20.67 | 19.13          | 19.85 | 19.61 | 20.33 | 20.80 |
| 8H              | 4H   | 18.88            | 19.69 | 19.35 | 20.13 | 20.60 | 19.24          | 20.05 | 19.71 | 20.49 | 20.96 |
|                 | 6H   | 19.16            | 19.82 | 19.65 | 20.31 | 20.79 | 19.30          | 19.97 | 19.80 | 20.46 | 20.93 |
|                 | 8H   | 19.20            | 19.79 | 19.71 | 20.30 | 20.79 | 19.28          | 19.87 | 19.80 | 20.38 | 20.87 |
|                 | 12H  | 19.21            | 19.74 | 19.72 | 20.23 | 20.79 | 19.27          | 19.79 | 19.78 | 20.28 | 20.84 |
| 12H             | 4H   | 18.87            | 19.58 | 19.35 | 20.06 | 20.53 | 19.23          | 19.95 | 19.72 | 20.43 | 20.90 |
|                 | 6H   | 19.13            | 19.72 | 19.64 | 20.23 | 20.72 | 19.28          | 19.87 | 19.79 | 20.38 | 20.87 |
|                 | 8H   | 19.20            | 19.72 | 19.70 | 20.21 | 20.77 | 19.28          | 19.80 | 19.79 | 20.30 | 20.86 |

END OF REPORT