

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: P1498170

Luminaire Tested: MAE-G-2-120-1LO-LO-30-90

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498170  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: MAE-G-2-120-1LO-LO-30-90  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 LO ambient , LO exam illumination levels  
Light Source: -  
Ballast/Driver: -

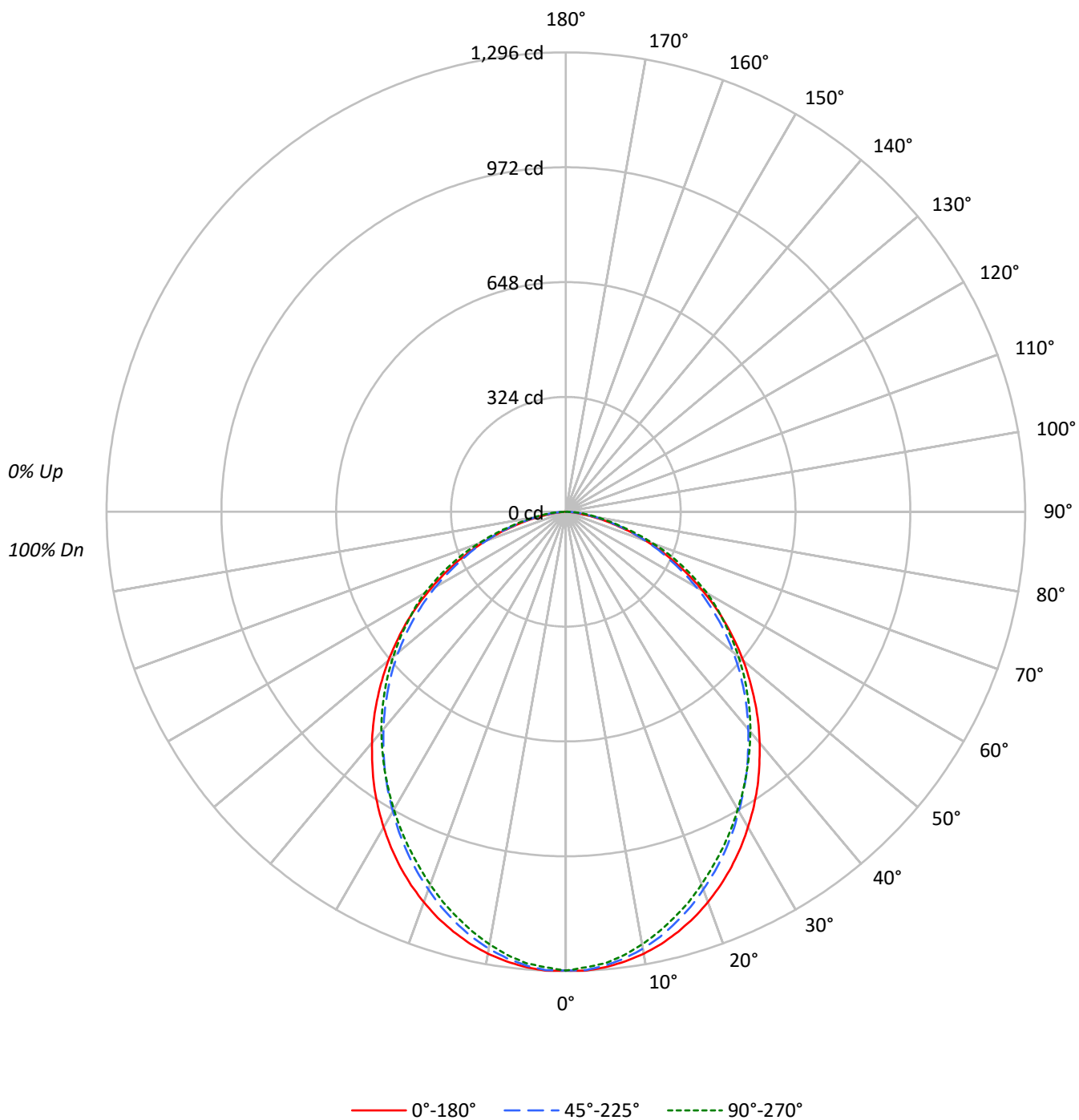
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3092.0 lumens  
Efficiency: N/A  
Efficacy: 84.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.25  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 36.7  
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   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 99  | 96  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |    |    |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 78  | 84  | 79  | 76  | 81  | 77  | 74  | 72  |    |    |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 65  | 72  | 67  | 63  | 61  |    |    |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 56  | 66  | 61  | 56  | 64  | 59  | 55  | 53  |    |    |
| 5   | 78  | 65  | 56  | 50  | 75  | 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  | 39  | 50  | 43  | 38  | 48  | 42  | 38  | 36  |    |    |
| 8   | 62  | 49  | 41  | 35  | 61  | 48  | 40  | 35  | 47  | 40  | 35  | 46  | 39  | 34  | 45  | 39  | 34  | 32  |    |    |
| 9   | 58  | 45  | 37  | 32  | 57  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 31  | 29  |    |    |
| 10  | 55  | 42  | 34  | 29  | 53  | 41  | 34  | 29  | 40  | 33  | 29  | 39  | 33  | 28  | 38  | 32  | 28  | 27  |    |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3483 | 3483 | 3483 |
| 5°  | 3484 | 3471 | 3453 |
| 10° | 3459 | 3420 | 3386 |
| 15° | 3416 | 3343 | 3299 |
| 20° | 3357 | 3247 | 3205 |
| 25° | 3283 | 3145 | 3108 |
| 30° | 3194 | 3031 | 3014 |
| 35° | 3099 | 2924 | 2927 |
| 40° | 2989 | 2812 | 2845 |
| 45° | 2868 | 2701 | 2755 |
| 50° | 2737 | 2583 | 2661 |
| 55° | 2587 | 2446 | 2564 |
| 60° | 2401 | 2289 | 2479 |
| 65° | 2187 | 2087 | 2313 |
| 70° | 1898 | 1880 | 2072 |
| 75° | 1517 | 1609 | 1720 |
| 80° | 1051 | 1254 | 1381 |
| 85° | 590  | 963  | 1260 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2868 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 121.5  | 3.9       |
| 10°-20°   | 338.4  | 10.9      |
| 20°-30°   | 491.2  | 15.9      |
| 30°-40°   | 564.8  | 18.3      |
| 40°-50°   | 558.7  | 18.1      |
| 50°-60°   | 478.1  | 15.5      |
| 60°-70°   | 337.6  | 10.9      |
| 70°-80°   | 165.2  | 5.3       |
| 80°-90°   | 36.4   | 1.2       |
| 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°    | 951.1  | 30.8      |
| 0°-40°    | 1515.9 | 49.0      |
| 0°-60°    | 2552.7 | 82.6      |
| 0°-90°    | 3092.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3092.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1294 | 1294  | 1294 | 1294  | 1294 |      |
| 5°  | 1290 | 1289  | 1285 | 1276  | 1278 | 122  |
| 15° | 1226 | 1219  | 1200 | 1183  | 1184 | 346  |
| 25° | 1106 | 1089  | 1059 | 1044  | 1047 | 509  |
| 35° | 943  | 920   | 890  | 885   | 891  | 589  |
| 45° | 754  | 732   | 710  | 717   | 724  | 581  |
| 55° | 551  | 532   | 521  | 535   | 546  | 492  |
| 65° | 343  | 328   | 328  | 352   | 363  | 340  |
| 75° | 146  | 139   | 155  | 165   | 165  | 157  |
| 85° | 19   | 23    | 31   | 38    | 41   | 27   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1294.4 | 1294.4 | 1294.4 | 1294.4 | 1294.4 |
| 2.5°  | 1295.9 | 1297.0 | 1294.4 | 1284.5 | 1286.3 |
| 5°    | 1289.9 | 1288.9 | 1284.9 | 1275.5 | 1278.4 |
| 7.5°  | 1279.7 | 1277.8 | 1270.7 | 1259.4 | 1261.4 |
| 10°   | 1266.0 | 1262.4 | 1251.7 | 1237.7 | 1239.2 |
| 12.5° | 1248.4 | 1243.4 | 1228.2 | 1212.3 | 1213.8 |
| 15°   | 1226.2 | 1219.2 | 1199.8 | 1182.8 | 1184.3 |
| 17.5° | 1200.9 | 1192.6 | 1169.2 | 1150.7 | 1154.1 |
| 20°   | 1172.2 | 1161.0 | 1134.0 | 1116.3 | 1119.2 |
| 22.5° | 1140.4 | 1126.5 | 1098.1 | 1080.9 | 1082.9 |
| 25°   | 1105.6 | 1088.7 | 1059.3 | 1044.3 | 1046.8 |
| 27.5° | 1067.9 | 1049.4 | 1019.0 | 1005.2 | 1009.2 |
| 30°   | 1027.8 | 1007.8 | 975.6  | 965.6  | 970.0  |
| 32.5° | 986.6  | 965.3  | 933.5  | 926.3  | 930.7  |
| 35°   | 943.3  | 920.1  | 890.2  | 885.3  | 890.9  |
| 37.5° | 896.9  | 874.5  | 844.9  | 845.3  | 850.5  |
| 40°   | 851.0  | 827.8  | 800.5  | 803.5  | 809.9  |
| 42.5° | 803.2  | 780.8  | 755.7  | 760.5  | 768.0  |
| 45°   | 753.5  | 731.9  | 709.7  | 716.8  | 723.8  |
| 47.5° | 703.5  | 682.2  | 663.8  | 672.3  | 680.8  |
| 50°   | 653.9  | 633.4  | 617.0  | 627.8  | 635.6  |
| 52.5° | 601.8  | 582.2  | 570.0  | 581.4  | 591.8  |
| 55°   | 551.4  | 531.5  | 521.3  | 535.3  | 546.5  |
| 57.5° | 499.2  | 482.7  | 473.8  | 490.6  | 504.7  |
| 60°   | 446.2  | 430.0  | 425.3  | 447.1  | 460.7  |
| 62.5° | 394.5  | 378.6  | 375.7  | 401.8  | 411.9  |
| 65°   | 343.4  | 327.8  | 327.8  | 352.4  | 363.2  |
| 67.5° | 292.8  | 278.5  | 283.8  | 307.8  | 315.1  |
| 70°   | 241.2  | 228.6  | 239.0  | 259.5  | 263.4  |
| 72.5° | 192.9  | 182.2  | 196.9  | 211.6  | 212.9  |
| 75°   | 145.9  | 139.1  | 154.8  | 164.9  | 165.4  |
| 77.5° | 104.4  | 101.0  | 115.5  | 122.8  | 123.6  |
| 80°   | 67.8   | 69.3   | 80.9   | 86.7   | 89.1   |
| 82.5° | 39.6   | 43.2   | 52.3   | 61.3   | 63.7   |
| 85°   | 19.1   | 23.4   | 31.2   | 38.0   | 40.8   |
| 87.5° | 6.6    | 9.5    | 13.0   | 14.5   | 14.1   |
| 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 | 15.14            | 16.72 | 15.51 | 17.04 | 17.35 | 15.26          | 16.84 | 15.62 | 17.15 | 17.47 |
|                 | 3H   | 16.59            | 18.02 | 16.97 | 18.35 | 18.71 | 16.92          | 18.34 | 17.29 | 18.67 | 19.03 |
|                 | 4H   | 17.02            | 18.36 | 17.42 | 18.71 | 19.09 | 17.43          | 18.77 | 17.83 | 19.12 | 19.50 |
|                 | 6H   | 17.25            | 18.48 | 17.66 | 18.85 | 19.24 | 17.74          | 18.98 | 18.16 | 19.35 | 19.74 |
|                 | 8H   | 17.28            | 18.46 | 17.71 | 18.85 | 19.25 | 17.84          | 19.02 | 18.26 | 19.41 | 19.81 |
|                 | 12H  | 17.29            | 18.42 | 17.72 | 18.80 | 19.23 | 17.90          | 19.03 | 18.33 | 19.42 | 19.84 |
| 4H              | 2H   | 15.65            | 16.99 | 16.05 | 17.34 | 17.71 | 15.75          | 17.08 | 16.15 | 17.43 | 17.81 |
|                 | 3H   | 17.29            | 18.41 | 17.70 | 18.80 | 19.20 | 17.61          | 18.73 | 18.02 | 19.13 | 19.53 |
|                 | 4H   | 17.81            | 18.81 | 18.24 | 19.22 | 19.66 | 18.24          | 19.25 | 18.67 | 19.66 | 20.10 |
|                 | 6H   | 18.11            | 18.98 | 18.56 | 19.43 | 19.88 | 18.66          | 19.53 | 19.11 | 19.97 | 20.43 |
|                 | 8H   | 18.17            | 18.98 | 18.63 | 19.43 | 19.89 | 18.79          | 19.61 | 19.25 | 20.05 | 20.52 |
|                 | 12H  | 18.19            | 18.92 | 18.67 | 19.40 | 19.87 | 18.89          | 19.62 | 19.37 | 20.10 | 20.57 |
| 8H              | 4H   | 18.03            | 18.85 | 18.49 | 19.29 | 19.76 | 18.43          | 19.24 | 18.89 | 19.69 | 20.15 |
|                 | 6H   | 18.40            | 19.08 | 18.90 | 19.57 | 20.05 | 18.93          | 19.60 | 19.42 | 20.09 | 20.57 |
|                 | 8H   | 18.49            | 19.10 | 19.01 | 19.61 | 20.09 | 19.11          | 19.72 | 19.62 | 20.23 | 20.71 |
|                 | 12H  | 18.55            | 19.08 | 19.06 | 19.57 | 20.14 | 19.28          | 19.81 | 19.79 | 20.30 | 20.87 |
| 12H             | 4H   | 18.05            | 18.78 | 18.53 | 19.25 | 19.72 | 18.43          | 19.16 | 18.91 | 19.64 | 20.11 |
|                 | 6H   | 18.43            | 19.03 | 18.94 | 19.54 | 20.03 | 18.93          | 19.54 | 19.44 | 20.05 | 20.54 |
|                 | 8H   | 18.56            | 19.09 | 19.07 | 19.58 | 20.15 | 19.16          | 19.70 | 19.67 | 20.19 | 20.75 |

END OF REPORT