

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: P1498269

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

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498269  
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-2-120-1STD-LO-30  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient , LO exam illumination levels  
Light Source: -  
Ballast/Driver: -

**Summary**

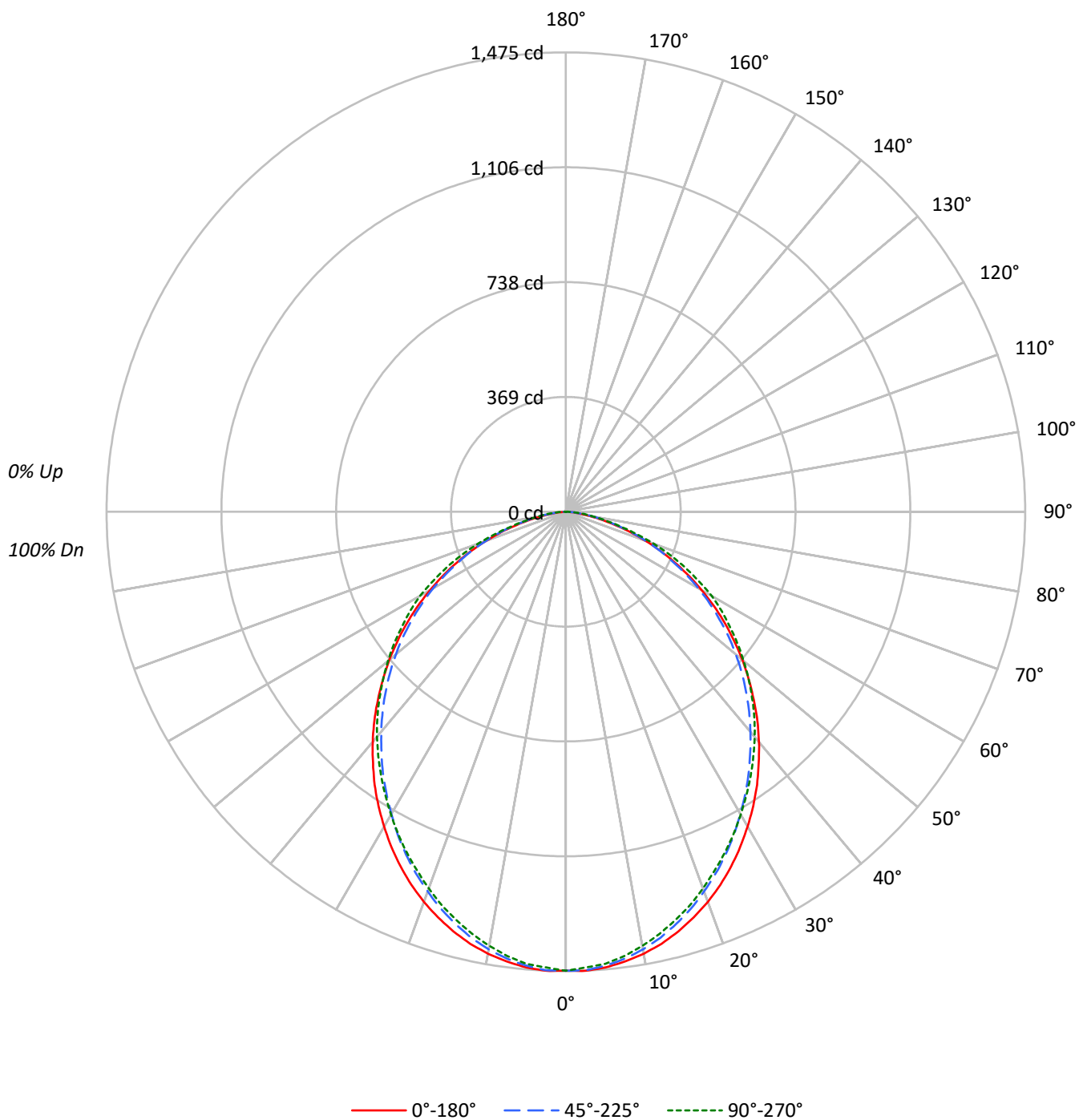
Lumens per Lamp: N/A  
Luminaire Lumens: 3543.0 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 41.9  
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  | 80  | 98  | 90  | 85  | 79  | 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  |  | 66  | 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  | 39  |  | 50  | 43  | 38  |  | 48  |
| 8   | 62  | 49  | 41  | 35  | 61  | 48  | 40  | 35  | 47  | 40  | 35  |  | 46  | 39  | 34  |  | 45  |
| 9   | 58  | 45  | 37  | 32  | 57  | 44  | 37  | 31  | 43  | 36  | 31  |  | 42  | 36  | 31  |  | 41  |
| 10  | 55  | 42  | 34  | 29  | 53  | 41  | 34  | 29  | 40  | 33  | 29  |  | 39  | 33  | 28  |  | 38  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3965 | 3965 | 3965 |
| 5°  | 3966 | 3952 | 3935 |
| 10° | 3937 | 3898 | 3867 |
| 15° | 3886 | 3816 | 3781 |
| 20° | 3817 | 3715 | 3686 |
| 25° | 3730 | 3605 | 3586 |
| 30° | 3626 | 3481 | 3489 |
| 35° | 3516 | 3364 | 3398 |
| 40° | 3390 | 3240 | 3314 |
| 45° | 3248 | 3116 | 3218 |
| 50° | 3098 | 2984 | 3120 |
| 55° | 2924 | 2827 | 3012 |
| 60° | 2709 | 2647 | 2909 |
| 65° | 2462 | 2407 | 2682 |
| 70° | 2133 | 2150 | 2354 |
| 75° | 1699 | 1805 | 1878 |
| 80° | 1172 | 1358 | 1437 |
| 85° | 651  | 1013 | 1294 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3248 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 138.4  | 3.9       |
| 10°-20°   | 386.5  | 10.9      |
| 20°-30°   | 562.7  | 15.9      |
| 30°-40°   | 648.9  | 18.3      |
| 40°-50°   | 643.5  | 18.2      |
| 50°-60°   | 551.8  | 15.6      |
| 60°-70°   | 387.8  | 10.9      |
| 70°-80°   | 184.8  | 5.2       |
| 80°-90°   | 38.8   | 1.1       |
| 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°    | 1087.5 | 30.7      |
| 0°-40°    | 1736.4 | 49.0      |
| 0°-60°    | 2931.7 | 82.7      |
| 0°-90°    | 3543.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3543.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1474 | 1474  | 1474 | 1474  | 1474 |      |
| 5°  | 1468 | 1467  | 1463 | 1454  | 1457 | 139  |
| 15° | 1395 | 1388  | 1370 | 1355  | 1357 | 393  |
| 25° | 1256 | 1240  | 1214 | 1203  | 1208 | 578  |
| 35° | 1070 | 1049  | 1024 | 1025  | 1034 | 669  |
| 45° | 854  | 834   | 819  | 834   | 846  | 658  |
| 55° | 623  | 606   | 602  | 626   | 642  | 556  |
| 65° | 387  | 373   | 378  | 408   | 421  | 383  |
| 75° | 163  | 158   | 174  | 182   | 181  | 176  |
| 85° | 21   | 25    | 33   | 39    | 42   | 30   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1473.5 | 1473.5 | 1473.5 | 1473.5 | 1473.5 |
| 2.5°  | 1475.3 | 1476.4 | 1473.5 | 1462.9 | 1464.4 |
| 5°    | 1468.3 | 1467.0 | 1463.0 | 1453.6 | 1456.8 |
| 7.5°  | 1456.5 | 1454.6 | 1447.5 | 1436.5 | 1438.7 |
| 10°   | 1440.8 | 1437.2 | 1426.7 | 1413.2 | 1415.3 |
| 12.5° | 1420.5 | 1415.8 | 1401.2 | 1386.2 | 1388.6 |
| 15°   | 1395.0 | 1388.3 | 1369.9 | 1354.7 | 1357.3 |
| 17.5° | 1365.8 | 1358.4 | 1336.4 | 1320.1 | 1325.0 |
| 20°   | 1332.8 | 1322.4 | 1297.4 | 1282.3 | 1287.0 |
| 22.5° | 1296.4 | 1283.2 | 1257.4 | 1243.3 | 1247.4 |
| 25°   | 1256.4 | 1240.2 | 1214.2 | 1203.1 | 1207.9 |
| 27.5° | 1213.1 | 1195.5 | 1169.3 | 1159.6 | 1166.5 |
| 30°   | 1167.0 | 1148.3 | 1120.2 | 1115.3 | 1122.8 |
| 32.5° | 1119.9 | 1100.1 | 1072.7 | 1071.5 | 1078.9 |
| 35°   | 1070.4 | 1048.7 | 1024.0 | 1025.3 | 1034.5 |
| 37.5° | 1017.3 | 996.7  | 972.5  | 980.4  | 989.2  |
| 40°   | 964.9  | 943.5  | 922.2  | 933.2  | 943.4  |
| 42.5° | 910.4  | 890.1  | 871.1  | 884.2  | 896.1  |
| 45°   | 853.5  | 834.5  | 818.8  | 834.4  | 845.7  |
| 47.5° | 796.5  | 777.6  | 766.2  | 783.4  | 796.5  |
| 50°   | 740.0  | 722.1  | 712.7  | 732.4  | 745.2  |
| 52.5° | 680.9  | 663.6  | 658.7  | 679.1  | 694.7  |
| 55°   | 623.3  | 605.7  | 602.5  | 625.8  | 641.9  |
| 57.5° | 563.9  | 550.2  | 547.8  | 573.6  | 593.2  |
| 60°   | 503.4  | 489.8  | 491.8  | 522.6  | 540.6  |
| 62.5° | 444.7  | 431.2  | 434.0  | 468.6  | 480.7  |
| 65°   | 386.7  | 373.1  | 378.0  | 408.0  | 421.2  |
| 67.5° | 329.6  | 316.9  | 326.6  | 354.2  | 362.6  |
| 70°   | 271.1  | 260.0  | 273.3  | 295.8  | 299.2  |
| 72.5° | 216.6  | 206.9  | 223.4  | 237.9  | 237.9  |
| 75°   | 163.4  | 157.7  | 173.6  | 181.9  | 180.6  |
| 77.5° | 116.8  | 113.9  | 127.6  | 132.4  | 131.4  |
| 80°   | 75.6   | 77.3   | 87.6   | 90.8   | 92.7   |
| 82.5° | 44.0   | 47.6   | 55.4   | 63.9   | 65.7   |
| 85°   | 21.1   | 25.4   | 32.8   | 39.3   | 41.9   |
| 87.5° | 7.3    | 10.2   | 13.5   | 15.0   | 14.6   |
| 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 | 15.57            | 17.15 | 15.93 | 17.46 | 17.78 | 15.88          | 17.46 | 16.24 | 17.77 | 18.09 |
|                 | 3H   | 17.00            | 18.43 | 17.38 | 18.76 | 19.12 | 17.48          | 18.90 | 17.86 | 19.23 | 19.59 |
|                 | 4H   | 17.43            | 18.76 | 17.83 | 19.11 | 19.49 | 17.95          | 19.28 | 18.34 | 19.63 | 20.01 |
|                 | 6H   | 17.64            | 18.88 | 18.05 | 19.24 | 19.64 | 18.20          | 19.44 | 18.61 | 19.80 | 20.19 |
|                 | 8H   | 17.67            | 18.85 | 18.10 | 19.24 | 19.64 | 18.27          | 19.45 | 18.70 | 19.84 | 20.24 |
|                 | 12H  | 17.68            | 18.81 | 18.11 | 19.19 | 19.62 | 18.32          | 19.45 | 18.75 | 19.83 | 20.26 |
| 4H              | 2H   | 16.09            | 17.43 | 16.49 | 17.78 | 18.16 | 16.35          | 17.69 | 16.75 | 18.04 | 18.41 |
|                 | 3H   | 17.72            | 18.83 | 18.13 | 19.23 | 19.63 | 18.15          | 19.27 | 18.56 | 19.66 | 20.07 |
|                 | 4H   | 18.22            | 19.23 | 18.65 | 19.64 | 20.08 | 18.73          | 19.73 | 19.16 | 20.14 | 20.58 |
|                 | 6H   | 18.52            | 19.39 | 18.97 | 19.83 | 20.29 | 19.08          | 19.95 | 19.53 | 20.39 | 20.85 |
|                 | 8H   | 18.57            | 19.38 | 19.03 | 19.83 | 20.29 | 19.18          | 19.99 | 19.64 | 20.44 | 20.90 |
|                 | 12H  | 18.59            | 19.32 | 19.07 | 19.80 | 20.27 | 19.26          | 19.99 | 19.74 | 20.47 | 20.94 |
| 8H              | 4H   | 18.44            | 19.26 | 18.90 | 19.70 | 20.17 | 18.90          | 19.71 | 19.36 | 20.16 | 20.62 |
|                 | 6H   | 18.80            | 19.47 | 19.29 | 19.96 | 20.44 | 19.32          | 19.99 | 19.82 | 20.48 | 20.96 |
|                 | 8H   | 18.88            | 19.49 | 19.39 | 19.99 | 20.48 | 19.47          | 20.07 | 19.98 | 20.58 | 21.07 |
|                 | 12H  | 18.93            | 19.46 | 19.44 | 19.96 | 20.52 | 19.61          | 20.14 | 20.11 | 20.63 | 21.19 |
| 12H             | 4H   | 18.45            | 19.18 | 18.93 | 19.66 | 20.13 | 18.90          | 19.62 | 19.38 | 20.10 | 20.57 |
|                 | 6H   | 18.81            | 19.42 | 19.32 | 19.93 | 20.41 | 19.32          | 19.93 | 19.83 | 20.44 | 20.92 |
|                 | 8H   | 18.94            | 19.47 | 19.44 | 19.96 | 20.52 | 19.52          | 20.05 | 20.02 | 20.54 | 21.10 |