

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: P1498424

Luminaire Tested: MAE-G-2-120-2LO-40-WDDCPH

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498424  
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-40-WDDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 LO ambient illumination levels  
Light Source: -  
Ballast/Driver: -

**Summary**

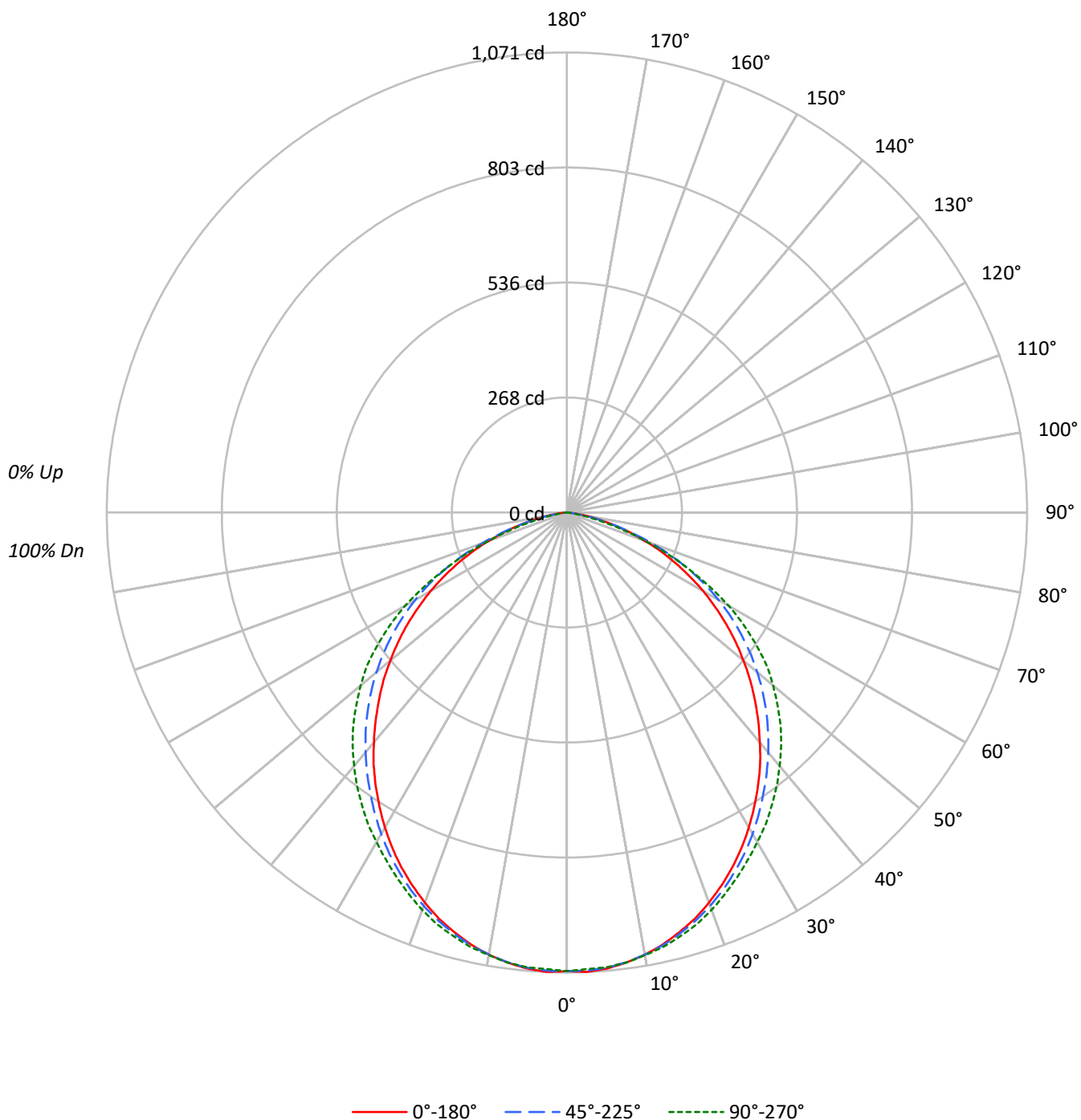
Lumens per Lamp: N/A  
Luminaire Lumens: 2695.0 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 110 | 105 | 102 | 98  | 107 | 103 | 100 | 97  | 99  | 96  | 93  |  | 95  | 93  | 91  |  | 92  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  |  | 84  | 80  | 76  |  | 81  |
| 3   | 92  | 82  | 74  | 68  | 89  | 80  | 73  | 67  | 77  | 71  | 66  |  | 75  | 69  | 65  |  | 72  |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 64  | 58  | 69  | 62  | 57  |  | 67  | 61  | 56  |  | 65  |
| 5   | 78  | 65  | 57  | 50  | 76  | 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  | 40  | 35  | 60  | 48  | 40  | 35  | 47  | 40  | 34  |  | 46  | 39  | 34  |  | 44  |
| 9   | 58  | 45  | 37  | 31  | 57  | 44  | 37  | 31  | 43  | 36  | 31  |  | 42  | 36  | 31  |  | 41  |
| 10  | 54  | 41  | 34  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  |  | 39  | 33  | 28  |  | 38  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2873 | 2873 | 2873 |
| 5°  | 2878 | 2873 | 2870 |
| 10° | 2856 | 2856 | 2860 |
| 15° | 2818 | 2828 | 2845 |
| 20° | 2768 | 2791 | 2820 |
| 25° | 2706 | 2742 | 2783 |
| 30° | 2632 | 2686 | 2753 |
| 35° | 2549 | 2620 | 2732 |
| 40° | 2454 | 2561 | 2706 |
| 45° | 2354 | 2497 | 2676 |
| 50° | 2245 | 2422 | 2622 |
| 55° | 2121 | 2325 | 2524 |
| 60° | 1971 | 2195 | 2343 |
| 65° | 1778 | 1994 | 2006 |
| 70° | 1518 | 1660 | 1552 |
| 75° | 1192 | 1202 | 969  |
| 80° | 775  | 618  | 372  |
| 85° | 358  | 235  | 191  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2676 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 100.8  | 3.7       |
| 10°-20°   | 286.0  | 10.6      |
| 20°-30°   | 424.9  | 15.8      |
| 30°-40°   | 500.4  | 18.6      |
| 40°-50°   | 507.0  | 18.8      |
| 50°-60°   | 441.3  | 16.4      |
| 60°-70°   | 300.7  | 11.2      |
| 70°-80°   | 120.2  | 4.5       |
| 80°-90°   | 13.8   | 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°    | 811.7  | 30.1      |
| 0°-40°    | 1312.1 | 48.7      |
| 0°-60°    | 2260.4 | 83.9      |
| 0°-90°    | 2695.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2695.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1068 | 1068  | 1068 | 1068  | 1068 |      |
| 5°  | 1066 | 1059  | 1064 | 1062  | 1063 | 101  |
| 15° | 1012 | 1007  | 1015 | 1019  | 1021 | 285  |
| 25° | 911  | 912   | 923  | 931   | 937  | 419  |
| 35° | 776  | 780   | 798  | 819   | 832  | 485  |
| 45° | 618  | 626   | 656  | 687   | 703  | 477  |
| 55° | 452  | 462   | 496  | 527   | 538  | 404  |
| 65° | 279  | 292   | 313  | 314   | 315  | 277  |
| 75° | 115  | 122   | 116  | 99    | 93   | 123  |
| 85° | 12   | 10    | 8    | 7     | 6    | 18   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

TEST NUMBER: P1498424

CATALOG NUMBER: MAE-G-2-120-2LO-40-WDDCPH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1067.6 | 1067.6 | 1067.6 | 1067.6 | 1067.6 |
| 2.5°  | 1070.6 | 1063.7 | 1067.6 | 1066.9 | 1064.0 |
| 5°    | 1065.5 | 1059.3 | 1063.7 | 1062.3 | 1062.6 |
| 7.5°  | 1057.1 | 1051.4 | 1056.1 | 1055.7 | 1056.8 |
| 10°   | 1045.2 | 1039.4 | 1045.2 | 1045.5 | 1046.6 |
| 12.5° | 1030.3 | 1025.2 | 1032.1 | 1033.6 | 1036.1 |
| 15°   | 1011.5 | 1007.1 | 1015.1 | 1018.7 | 1021.2 |
| 17.5° | 991.2  | 988.3  | 996.2  | 1001.0 | 1005.0 |
| 20°   | 966.5  | 965.1  | 974.5  | 979.2  | 984.6  |
| 22.5° | 939.7  | 938.9  | 950.2  | 956.0  | 961.5  |
| 25°   | 911.4  | 911.8  | 923.4  | 931.0  | 937.2  |
| 27.5° | 880.2  | 880.9  | 895.1  | 904.2  | 911.8  |
| 30°   | 846.9  | 848.7  | 864.3  | 876.6  | 886.1  |
| 32.5° | 811.7  | 815.0  | 831.6  | 848.7  | 860.7  |
| 35°   | 775.8  | 779.5  | 797.6  | 818.6  | 831.6  |
| 37.5° | 738.9  | 742.9  | 763.9  | 788.5  | 802.3  |
| 40°   | 698.6  | 704.7  | 729.1  | 756.2  | 770.3  |
| 42.5° | 659.1  | 665.9  | 693.2  | 722.9  | 738.1  |
| 45°   | 618.5  | 626.1  | 656.2  | 687.0  | 703.3  |
| 47.5° | 579.3  | 585.8  | 618.1  | 650.4  | 664.9  |
| 50°   | 536.2  | 544.9  | 578.6  | 610.9  | 626.4  |
| 52.5° | 494.9  | 503.2  | 537.7  | 570.6  | 586.6  |
| 55°   | 452.1  | 461.9  | 495.6  | 526.8  | 538.0  |
| 57.5° | 409.0  | 420.2  | 452.8  | 478.5  | 488.3  |
| 60°   | 366.2  | 377.4  | 407.9  | 428.1  | 435.4  |
| 62.5° | 323.0  | 334.6  | 361.5  | 373.8  | 375.2  |
| 65°   | 279.2  | 292.2  | 313.2  | 313.6  | 315.1  |
| 67.5° | 237.5  | 248.3  | 263.5  | 259.2  | 257.0  |
| 70°   | 192.9  | 204.8  | 211.0  | 202.3  | 197.2  |
| 72.5° | 153.4  | 162.0  | 161.0  | 148.2  | 142.1  |
| 75°   | 114.6  | 121.5  | 115.6  | 99.4   | 93.2   |
| 77.5° | 79.4   | 85.2   | 73.6   | 58.3   | 52.2   |
| 80°   | 50.0   | 52.6   | 39.9   | 28.3   | 24.0   |
| 82.5° | 26.8   | 26.4   | 17.1   | 14.1   | 13.1   |
| 85°   | 11.6   | 10.5   | 7.6    | 6.9    | 6.2    |
| 87.5° | 4.0    | 3.6    | 2.9    | 2.6    | 2.2    |
| 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 | 14.58            | 16.16 | 14.95 | 16.48 | 16.79 | 15.54          | 17.13 | 15.91 | 17.44 | 17.75 |
|                 | 3H   | 16.00            | 17.42 | 16.38 | 17.75 | 18.11 | 16.73          | 18.15 | 17.11 | 18.48 | 18.84 |
|                 | 4H   | 16.40            | 17.73 | 16.80 | 18.08 | 18.46 | 16.95          | 18.28 | 17.35 | 18.63 | 19.01 |
|                 | 6H   | 16.57            | 17.80 | 16.98 | 18.17 | 18.56 | 16.97          | 18.20 | 17.38 | 18.56 | 18.95 |
|                 | 8H   | 16.58            | 17.76 | 17.01 | 18.15 | 18.55 | 16.94          | 18.11 | 17.37 | 18.50 | 18.90 |
|                 | 12H  | 16.57            | 17.70 | 17.00 | 18.08 | 18.51 | 16.92          | 18.04 | 17.35 | 18.42 | 18.85 |
| 4H              | 2H   | 15.24            | 16.58 | 15.64 | 16.92 | 17.30 | 16.02          | 17.35 | 16.42 | 17.70 | 18.08 |
|                 | 3H   | 16.82            | 17.93 | 17.23 | 18.32 | 18.73 | 17.37          | 18.47 | 17.78 | 18.87 | 19.27 |
|                 | 4H   | 17.30            | 18.29 | 17.73 | 18.70 | 19.14 | 17.64          | 18.63 | 18.07 | 19.04 | 19.48 |
|                 | 6H   | 17.54            | 18.40 | 17.99 | 18.84 | 19.30 | 17.69          | 18.55 | 18.14 | 18.99 | 19.45 |
|                 | 8H   | 17.56            | 18.36 | 18.02 | 18.81 | 19.27 | 17.66          | 18.47 | 18.12 | 18.91 | 19.38 |
|                 | 12H  | 17.56            | 18.28 | 18.04 | 18.75 | 19.22 | 17.64          | 18.36 | 18.12 | 18.84 | 19.31 |
| 8H              | 4H   | 17.43            | 18.24 | 17.90 | 18.68 | 19.15 | 17.75          | 18.55 | 18.21 | 19.00 | 19.46 |
|                 | 6H   | 17.71            | 18.37 | 18.21 | 18.86 | 19.34 | 17.81          | 18.47 | 18.30 | 18.96 | 19.44 |
|                 | 8H   | 17.75            | 18.34 | 18.26 | 18.85 | 19.34 | 17.79          | 18.38 | 18.30 | 18.89 | 19.37 |
|                 | 12H  | 17.76            | 18.28 | 18.27 | 18.77 | 19.34 | 17.77          | 18.29 | 18.28 | 18.78 | 19.35 |
| 12H             | 4H   | 17.42            | 18.13 | 17.90 | 18.61 | 19.08 | 17.74          | 18.46 | 18.22 | 18.93 | 19.40 |
|                 | 6H   | 17.68            | 18.27 | 18.19 | 18.78 | 19.27 | 17.79          | 18.38 | 18.30 | 18.89 | 19.37 |
|                 | 8H   | 17.74            | 18.26 | 18.25 | 18.76 | 19.32 | 17.79          | 18.31 | 18.29 | 18.80 | 19.36 |