

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: P1499270

Luminaire Tested: MAE-G-4-120-2HI-STD-50-WDDCPH

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1499270  
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-4-120-2HI-STD-50-WDDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient , STD exam illumination levels  
Light Source: -  
Ballast/Driver: -

**Summary**

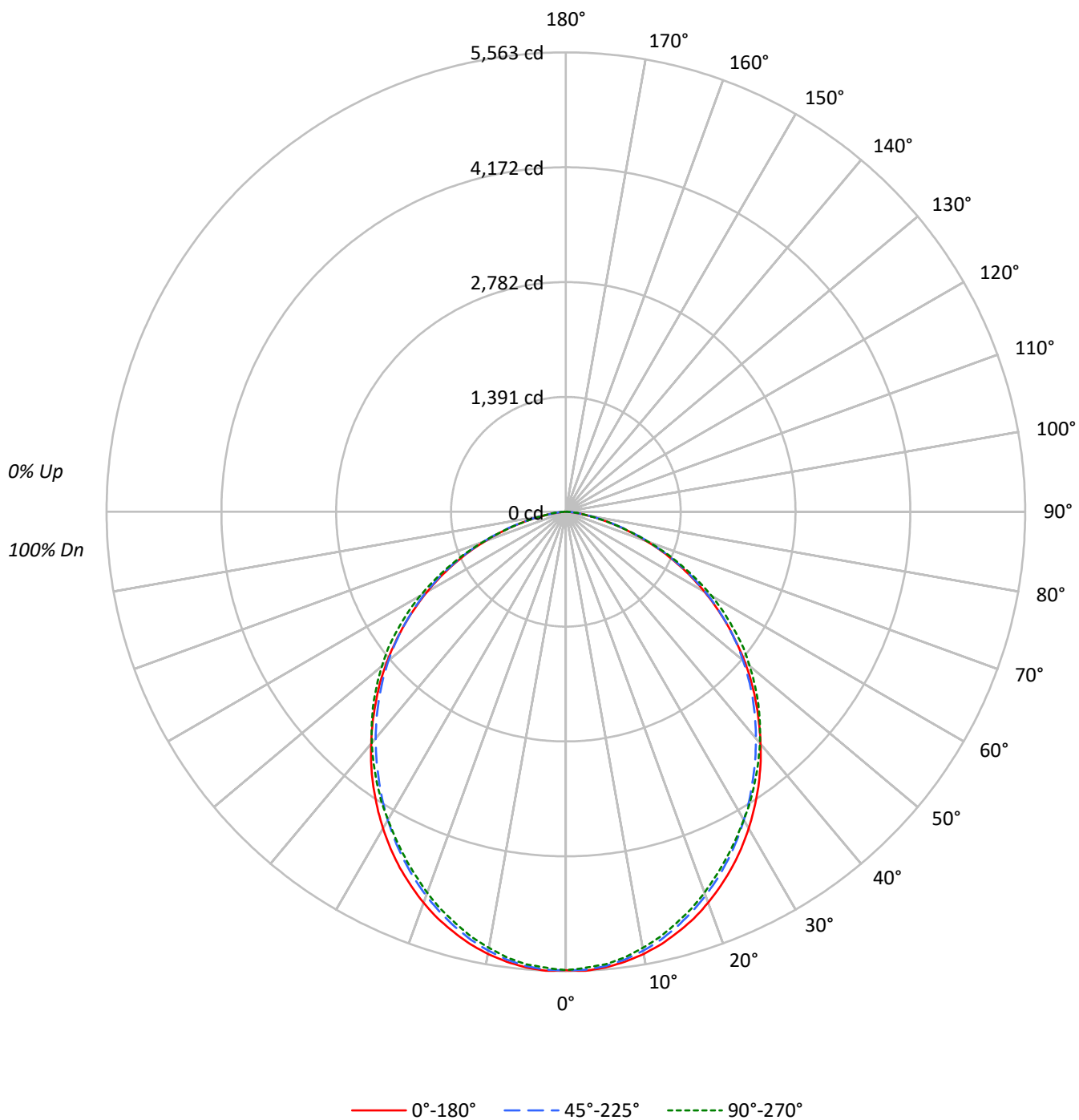
Lumens per Lamp: N/A  
Luminaire Lumens: 13573.0 lumens  
Efficiency: N/A  
Efficacy: 86.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 157.1  
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 | 101 | 98  | 107 | 103 | 99  | 96  | 99  | 96  | 93  | 95  | 92  | 90  | 91  | 89  | 88  | 86  |    |    |
| 2   | 100 | 92  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 77  | 74  | 72  |    |    |
| 3   | 92  | 82  | 74  | 68  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 65  | 72  | 67  | 64  | 62  |    |    |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 57  | 67  | 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  | 38  | 50  | 43  | 38  | 48  | 42  | 38  | 36  |    |    |
| 8   | 62  | 49  | 41  | 35  | 61  | 48  | 40  | 35  | 47  | 40  | 35  | 46  | 39  | 34  | 44  | 39  | 34  | 32  |    |    |
| 9   | 58  | 45  | 37  | 31  | 57  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 31  | 29  |    |    |
| 10  | 54  | 42  | 34  | 29  | 53  | 41  | 34  | 29  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |    |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7470 | 7470 | 7470 |
| 5°  | 7481 | 7458 | 7428 |
| 10° | 7428 | 7375 | 7327 |
| 15° | 7336 | 7244 | 7188 |
| 20° | 7215 | 7082 | 7029 |
| 25° | 7062 | 6899 | 6851 |
| 30° | 6881 | 6699 | 6694 |
| 35° | 6676 | 6489 | 6558 |
| 40° | 6443 | 6292 | 6420 |
| 45° | 6192 | 6089 | 6273 |
| 50° | 5919 | 5867 | 6083 |
| 55° | 5604 | 5602 | 5835 |
| 60° | 5226 | 5268 | 5489 |
| 65° | 4747 | 4816 | 4939 |
| 70° | 4094 | 4180 | 4198 |
| 75° | 3257 | 3343 | 3235 |
| 80° | 2195 | 2255 | 2184 |
| 85° | 1116 | 1451 | 1819 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6273 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 522.4   | 3.8       |
| 10°-20°   | 1465.1  | 10.8      |
| 20°-30°   | 2146.4  | 15.8      |
| 30°-40°   | 2494.2  | 18.4      |
| 40°-50°   | 2494.4  | 18.4      |
| 50°-60°   | 2151.5  | 15.9      |
| 60°-70°   | 1497.0  | 11.0      |
| 70°-80°   | 679.9   | 5.0       |
| 80°-90°   | 122.0   | 0.9       |
| 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°    | 4133.9  | 30.5      |
| 0°-40°    | 6628.1  | 48.8      |
| 0°-60°    | 11274.1 | 83.1      |
| 0°-90°    | 13573.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 13573.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 5552 | 5552  | 5552 | 5552  | 5552 |      |
| 5°  | 5539 | 5518  | 5522 | 5493  | 5500 | 525  |
| 15° | 5266 | 5232  | 5201 | 5156  | 5160 | 1484 |
| 25° | 4757 | 4709  | 4647 | 4605  | 4615 | 2189 |
| 35° | 4065 | 4006  | 3951 | 3962  | 3993 | 2540 |
| 45° | 3254 | 3205  | 3200 | 3257  | 3297 | 2510 |
| 55° | 2389 | 2353  | 2388 | 2458  | 2488 | 2133 |
| 65° | 1491 | 1479  | 1513 | 1536  | 1551 | 1476 |
| 75° | 626  | 625   | 643  | 628   | 622  | 674  |
| 85° | 72   | 80    | 94   | 111   | 118  | 108  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 5551.7 | 5551.7 | 5551.7 | 5551.7 | 5551.7 |
| 2.5°  | 5563.4 | 5543.2 | 5551.7 | 5529.9 | 5526.7 |
| 5°    | 5539.0 | 5517.5 | 5521.9 | 5493.0 | 5499.6 |
| 7.5°  | 5496.3 | 5472.3 | 5469.7 | 5437.7 | 5444.3 |
| 10°   | 5436.8 | 5408.0 | 5398.0 | 5359.2 | 5362.9 |
| 12.5° | 5360.9 | 5329.3 | 5309.6 | 5265.6 | 5272.3 |
| 15°   | 5266.3 | 5231.5 | 5200.7 | 5155.8 | 5160.3 |
| 17.5° | 5162.3 | 5125.6 | 5080.3 | 5033.2 | 5043.7 |
| 20°   | 5038.9 | 4999.7 | 4946.3 | 4897.1 | 4909.1 |
| 22.5° | 4902.5 | 4858.5 | 4803.8 | 4755.7 | 4763.7 |
| 25°   | 4756.9 | 4709.2 | 4647.3 | 4605.2 | 4614.8 |
| 27.5° | 4598.6 | 4545.6 | 4484.1 | 4447.7 | 4462.3 |
| 30°   | 4428.7 | 4373.6 | 4312.1 | 4288.7 | 4308.3 |
| 32.5° | 4249.5 | 4194.1 | 4135.3 | 4129.5 | 4157.6 |
| 35°   | 4064.6 | 4005.6 | 3950.8 | 3961.9 | 3992.8 |
| 37.5° | 3872.2 | 3814.5 | 3768.2 | 3795.6 | 3827.8 |
| 40°   | 3668.0 | 3615.3 | 3582.2 | 3620.6 | 3655.0 |
| 42.5° | 3463.2 | 3413.1 | 3393.5 | 3443.2 | 3480.4 |
| 45°   | 3254.1 | 3204.7 | 3200.0 | 3257.2 | 3296.8 |
| 47.5° | 3046.8 | 2996.5 | 3004.9 | 3068.8 | 3104.3 |
| 50°   | 2827.5 | 2784.3 | 2803.0 | 2870.6 | 2906.1 |
| 52.5° | 2607.4 | 2567.8 | 2597.4 | 2668.9 | 2710.6 |
| 55°   | 2389.0 | 2353.2 | 2387.9 | 2458.0 | 2487.5 |
| 57.5° | 2164.9 | 2138.7 | 2176.7 | 2238.0 | 2266.3 |
| 60°   | 1941.9 | 1918.4 | 1957.7 | 2013.6 | 2039.9 |
| 62.5° | 1716.6 | 1697.2 | 1737.3 | 1781.4 | 1796.4 |
| 65°   | 1491.1 | 1479.3 | 1512.7 | 1536.2 | 1551.4 |
| 67.5° | 1270.0 | 1258.1 | 1289.6 | 1309.5 | 1313.3 |
| 70°   | 1040.7 | 1036.3 | 1062.5 | 1070.5 | 1067.2 |
| 72.5° | 830.5  | 824.3  | 844.9  | 842.1  | 834.6  |
| 75°   | 626.5  | 624.6  | 643.1  | 628.1  | 622.3  |
| 77.5° | 441.0  | 447.5  | 451.9  | 438.9  | 434.2  |
| 80°   | 283.3  | 293.8  | 291.0  | 286.4  | 281.9  |
| 82.5° | 158.5  | 166.4  | 168.2  | 185.1  | 191.8  |
| 85°   | 72.3   | 79.6   | 94.0   | 111.0  | 117.8  |
| 87.5° | 24.4   | 30.5   | 39.3   | 41.9   | 39.6   |
| 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 | 17.91            | 19.50 | 18.28 | 19.81 | 20.12 | 18.23          | 19.81 | 18.59 | 20.13 | 20.44 |
|                 | 3H   | 19.37            | 20.80 | 19.75 | 21.12 | 21.48 | 19.66          | 21.08 | 20.04 | 21.41 | 21.77 |
|                 | 4H   | 19.79            | 21.13 | 20.19 | 21.48 | 21.85 | 20.05          | 21.38 | 20.44 | 21.73 | 22.11 |
|                 | 6H   | 20.00            | 21.23 | 20.41 | 21.60 | 21.99 | 20.22          | 21.46 | 20.64 | 21.83 | 22.22 |
|                 | 8H   | 20.02            | 21.20 | 20.45 | 21.59 | 21.99 | 20.26          | 21.44 | 20.68 | 21.83 | 22.23 |
|                 | 12H  | 20.02            | 21.15 | 20.45 | 21.53 | 21.96 | 20.28          | 21.40 | 20.71 | 21.79 | 22.21 |
| 4H              | 2H   | 18.48            | 19.82 | 18.88 | 20.17 | 20.54 | 18.74          | 20.08 | 19.14 | 20.43 | 20.80 |
|                 | 3H   | 20.12            | 21.23 | 20.53 | 21.63 | 22.03 | 20.35          | 21.46 | 20.76 | 21.86 | 22.26 |
|                 | 4H   | 20.62            | 21.62 | 21.05 | 22.04 | 22.47 | 20.83          | 21.83 | 21.26 | 22.24 | 22.68 |
|                 | 6H   | 20.90            | 21.77 | 21.36 | 22.21 | 22.67 | 21.08          | 21.95 | 21.53 | 22.39 | 22.85 |
|                 | 8H   | 20.94            | 21.76 | 21.41 | 22.20 | 22.66 | 21.13          | 21.94 | 21.59 | 22.39 | 22.85 |
|                 | 12H  | 20.95            | 21.68 | 21.44 | 22.16 | 22.63 | 21.17          | 21.90 | 21.65 | 22.37 | 22.84 |
| 8H              | 4H   | 20.80            | 21.62 | 21.27 | 22.06 | 22.53 | 20.99          | 21.80 | 21.45 | 22.25 | 22.71 |
|                 | 6H   | 21.14            | 21.81 | 21.63 | 22.30 | 22.77 | 21.29          | 21.96 | 21.79 | 22.45 | 22.93 |
|                 | 8H   | 21.20            | 21.80 | 21.72 | 22.31 | 22.80 | 21.38          | 21.98 | 21.89 | 22.48 | 22.97 |
|                 | 12H  | 21.24            | 21.77 | 21.75 | 22.26 | 22.82 | 21.45          | 21.98 | 21.96 | 22.47 | 23.03 |
| 12H             | 4H   | 20.80            | 21.53 | 21.28 | 22.00 | 22.48 | 20.99          | 21.71 | 21.47 | 22.19 | 22.66 |
|                 | 6H   | 21.13            | 21.73 | 21.65 | 22.24 | 22.73 | 21.29          | 21.89 | 21.80 | 22.40 | 22.88 |
|                 | 8H   | 21.23            | 21.76 | 21.74 | 22.25 | 22.82 | 21.40          | 21.93 | 21.91 | 22.43 | 22.99 |