

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: P1499750

Luminaire Tested: MAE-G-4-120-3STD-STD-50-WDDCPH

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1499750  
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-4-120-3STD-STD-50-WDDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient , STD exam illumination levels  
Light Source: -  
Ballast/Driver: -

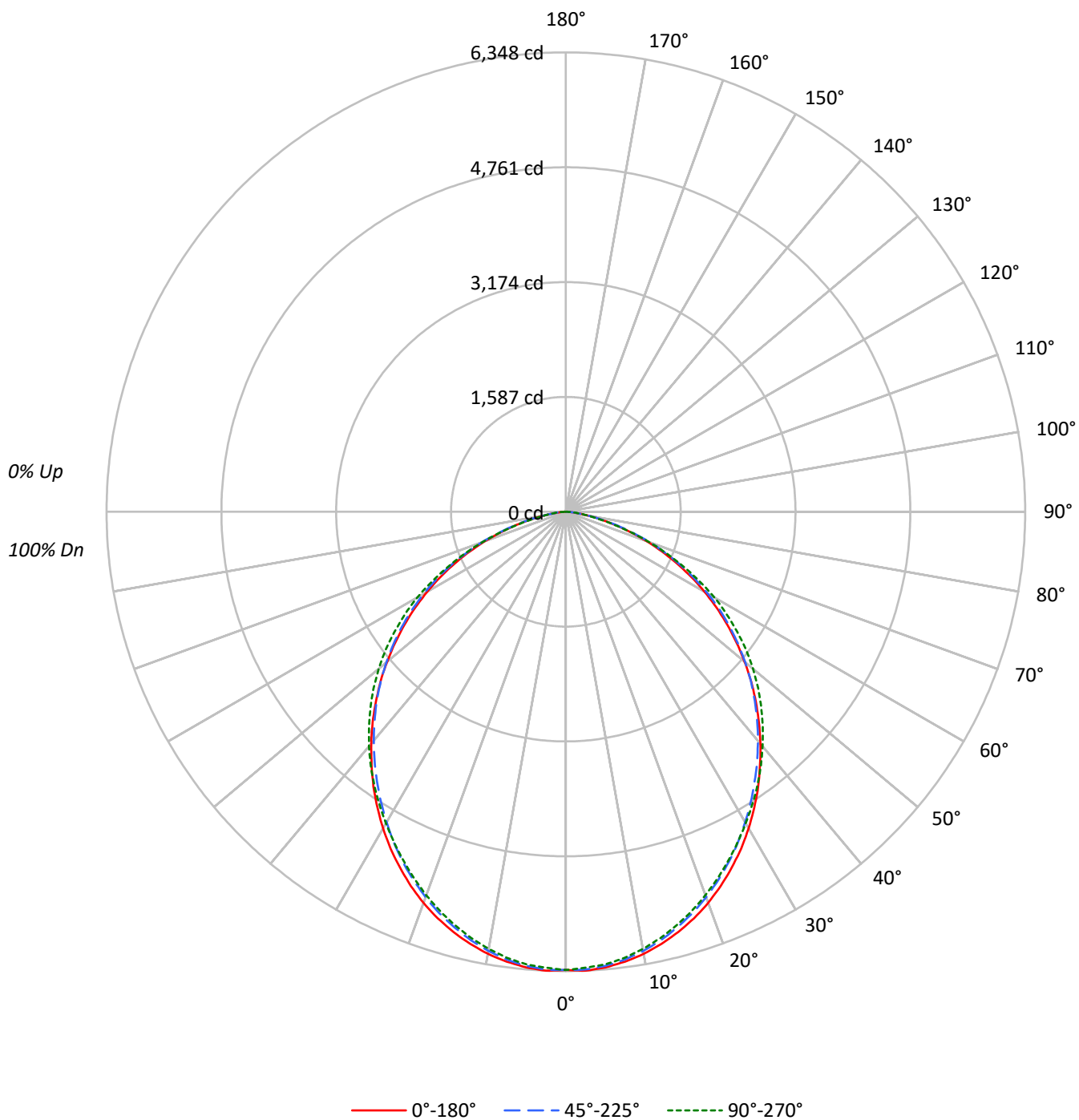
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15587.0 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 170.9  
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  | 81  | 98  | 91  | 85  | 80  | 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  |  | 67  | 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  | 44  | 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  | 29  | 53  | 41  | 33  | 28  | 40  | 33  | 28  |  | 39  | 33  | 28  |  | 38  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 8520 | 8520 | 8520 |
| 5°  | 8535 | 8508 | 8480 |
| 10° | 8476 | 8420 | 8379 |
| 15° | 8373 | 8283 | 8240 |
| 20° | 8236 | 8117 | 8074 |
| 25° | 8055 | 7921 | 7892 |
| 30° | 7849 | 7699 | 7724 |
| 35° | 7614 | 7473 | 7581 |
| 40° | 7350 | 7253 | 7430 |
| 45° | 7062 | 7028 | 7262 |
| 50° | 6749 | 6773 | 7065 |
| 55° | 6395 | 6478 | 6775 |
| 60° | 5955 | 6099 | 6386 |
| 65° | 5410 | 5587 | 5709 |
| 70° | 4659 | 4851 | 4810 |
| 75° | 3701 | 3848 | 3587 |
| 80° | 2490 | 2514 | 2327 |
| 85° | 1278 | 1570 | 1905 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7262 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 596.2   | 3.8       |
| 10°-20°   | 1675.4  | 10.7      |
| 20°-30°   | 2460.8  | 15.8      |
| 30°-40°   | 2865.4  | 18.4      |
| 40°-50°   | 2872.1  | 18.4      |
| 50°-60°   | 2482.3  | 15.9      |
| 60°-70°   | 1726.9  | 11.1      |
| 70°-80°   | 774.2   | 5.0       |
| 80°-90°   | 133.6   | 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°    | 4732.4  | 30.4      |
| 0°-40°    | 7597.8  | 48.7      |
| 0°-60°    | 12952.3 | 83.1      |
| 0°-90°    | 15587.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 15587.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 6332 | 6332  | 6332 | 6332  | 6332 |      |
| 5°  | 6319 | 6292  | 6299 | 6270  | 6278 | 599  |
| 15° | 6011 | 5972  | 5946 | 5906  | 5916 | 1694 |
| 25° | 5426 | 5378  | 5335 | 5295  | 5316 | 2498 |
| 35° | 4636 | 4578  | 4550 | 4571  | 4616 | 2896 |
| 45° | 3712 | 3671  | 3694 | 3768  | 3817 | 2864 |
| 55° | 2726 | 2697  | 2762 | 2855  | 2888 | 2433 |
| 65° | 1699 | 1695  | 1755 | 1787  | 1793 | 1679 |
| 75° | 712  | 718   | 740  | 711   | 690  | 765  |
| 85° | 83   | 89    | 102  | 117   | 123  | 123  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 6331.9 | 6331.9 | 6331.9 | 6331.9 | 6331.9 |
| 2.5°  | 6347.7 | 6321.5 | 6331.9 | 6309.4 | 6304.8 |
| 5°    | 6319.3 | 6292.2 | 6299.0 | 6270.0 | 6278.4 |
| 7.5°  | 6270.3 | 6241.5 | 6241.2 | 6209.6 | 6217.4 |
| 10°   | 6203.5 | 6169.9 | 6162.7 | 6126.8 | 6132.9 |
| 12.5° | 6115.0 | 6080.3 | 6064.7 | 6023.9 | 6034.0 |
| 15°   | 6010.9 | 5972.5 | 5946.3 | 5906.3 | 5915.5 |
| 17.5° | 5890.2 | 5848.1 | 5816.5 | 5769.8 | 5784.9 |
| 20°   | 5751.7 | 5706.5 | 5668.6 | 5619.0 | 5639.0 |
| 22.5° | 5596.6 | 5549.1 | 5505.7 | 5461.4 | 5481.5 |
| 25°   | 5425.8 | 5377.8 | 5335.4 | 5295.2 | 5316.2 |
| 27.5° | 5246.1 | 5192.7 | 5150.2 | 5121.6 | 5145.0 |
| 30°   | 5051.8 | 4996.6 | 4955.6 | 4938.3 | 4971.4 |
| 32.5° | 4846.4 | 4792.1 | 4756.0 | 4757.6 | 4796.0 |
| 35°   | 4635.7 | 4578.4 | 4549.8 | 4570.9 | 4615.5 |
| 37.5° | 4409.0 | 4361.1 | 4342.2 | 4382.6 | 4427.8 |
| 40°   | 4184.4 | 4134.4 | 4129.5 | 4182.6 | 4230.3 |
| 42.5° | 3952.1 | 3908.1 | 3914.1 | 3982.0 | 4026.5 |
| 45°   | 3711.6 | 3670.8 | 3693.5 | 3768.1 | 3816.7 |
| 47.5° | 3475.2 | 3433.4 | 3468.7 | 3550.4 | 3602.8 |
| 50°   | 3224.0 | 3190.1 | 3235.9 | 3327.3 | 3375.3 |
| 52.5° | 2974.4 | 2942.0 | 3000.2 | 3096.6 | 3142.9 |
| 55°   | 2726.0 | 2696.7 | 2761.5 | 2855.0 | 2888.3 |
| 57.5° | 2469.0 | 2452.6 | 2519.4 | 2601.4 | 2636.1 |
| 60°   | 2213.1 | 2199.3 | 2266.6 | 2342.4 | 2373.3 |
| 62.5° | 1957.1 | 1949.3 | 2013.3 | 2074.4 | 2084.6 |
| 65°   | 1699.2 | 1695.1 | 1754.8 | 1787.0 | 1793.3 |
| 67.5° | 1438.4 | 1441.7 | 1495.7 | 1511.9 | 1510.8 |
| 70°   | 1184.3 | 1184.2 | 1233.2 | 1236.7 | 1222.6 |
| 72.5° | 937.3  | 944.4  | 975.6  | 967.2  | 944.6  |
| 75°   | 712.0  | 718.4  | 740.2  | 711.4  | 690.0  |
| 77.5° | 502.3  | 507.7  | 516.8  | 485.3  | 471.8  |
| 80°   | 321.3  | 331.3  | 324.5  | 309.5  | 300.3  |
| 82.5° | 179.5  | 189.5  | 183.6  | 197.3  | 203.5  |
| 85°   | 82.8   | 88.7   | 101.7  | 117.1  | 123.4  |
| 87.5° | 28.2   | 33.6   | 41.6   | 44.4   | 41.4   |
| 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 | 18.37            | 19.96 | 18.74 | 20.27 | 20.59 | 18.79          | 20.38 | 19.16 | 20.69 | 21.01 |
|                 | 3H   | 19.82            | 21.25 | 20.20 | 21.57 | 21.93 | 20.20          | 21.62 | 20.58 | 21.95 | 22.31 |
|                 | 4H   | 20.24            | 21.58 | 20.64 | 21.92 | 22.30 | 20.56          | 21.90 | 20.96 | 22.25 | 22.63 |
|                 | 6H   | 20.44            | 21.68 | 20.85 | 22.04 | 22.43 | 20.71          | 21.95 | 21.13 | 22.32 | 22.71 |
|                 | 8H   | 20.46            | 21.64 | 20.89 | 22.03 | 22.43 | 20.74          | 21.92 | 21.16 | 22.31 | 22.71 |
|                 | 12H  | 20.46            | 21.59 | 20.89 | 21.97 | 22.40 | 20.75          | 21.88 | 21.18 | 22.26 | 22.69 |
| 4H              | 2H   | 18.96            | 20.30 | 19.36 | 20.65 | 21.03 | 19.30          | 20.64 | 19.70 | 20.99 | 21.36 |
|                 | 3H   | 20.58            | 21.69 | 20.99 | 22.09 | 22.49 | 20.89          | 22.00 | 21.30 | 22.40 | 22.80 |
|                 | 4H   | 21.09            | 22.09 | 21.52 | 22.50 | 22.94 | 21.34          | 22.34 | 21.77 | 22.75 | 23.19 |
|                 | 6H   | 21.36            | 22.23 | 21.82 | 22.67 | 23.13 | 21.56          | 22.43 | 22.02 | 22.87 | 23.33 |
|                 | 8H   | 21.40            | 22.21 | 21.86 | 22.65 | 23.12 | 21.60          | 22.41 | 22.06 | 22.85 | 23.32 |
|                 | 12H  | 21.41            | 22.14 | 21.89 | 22.61 | 23.08 | 21.63          | 22.35 | 22.11 | 22.83 | 23.30 |
| 8H              | 4H   | 21.27            | 22.08 | 21.73 | 22.52 | 22.99 | 21.50          | 22.31 | 21.96 | 22.76 | 23.22 |
|                 | 6H   | 21.59            | 22.26 | 22.09 | 22.75 | 23.23 | 21.77          | 22.43 | 22.26 | 22.92 | 23.40 |
|                 | 8H   | 21.66            | 22.26 | 22.17 | 22.77 | 23.25 | 21.83          | 22.43 | 22.34 | 22.94 | 23.43 |
|                 | 12H  | 21.69            | 22.22 | 22.20 | 22.71 | 23.27 | 21.89          | 22.42 | 22.40 | 22.91 | 23.47 |
| 12H             | 4H   | 21.26            | 21.99 | 21.74 | 22.47 | 22.94 | 21.50          | 22.22 | 21.98 | 22.70 | 23.17 |
|                 | 6H   | 21.59            | 22.19 | 22.10 | 22.70 | 23.18 | 21.76          | 22.36 | 22.27 | 22.87 | 23.35 |
|                 | 8H   | 21.68            | 22.21 | 22.19 | 22.70 | 23.27 | 21.86          | 22.38 | 22.36 | 22.88 | 23.44 |