

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: P1499048

Luminaire Tested: MAE-G-4-120-1LO-LO-40-WDDCPH

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1499048  
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-4-120-1LO-LO-40-WDDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 LO ambient , LO exam illumination levels  
Light Source: -  
Ballast/Driver: -

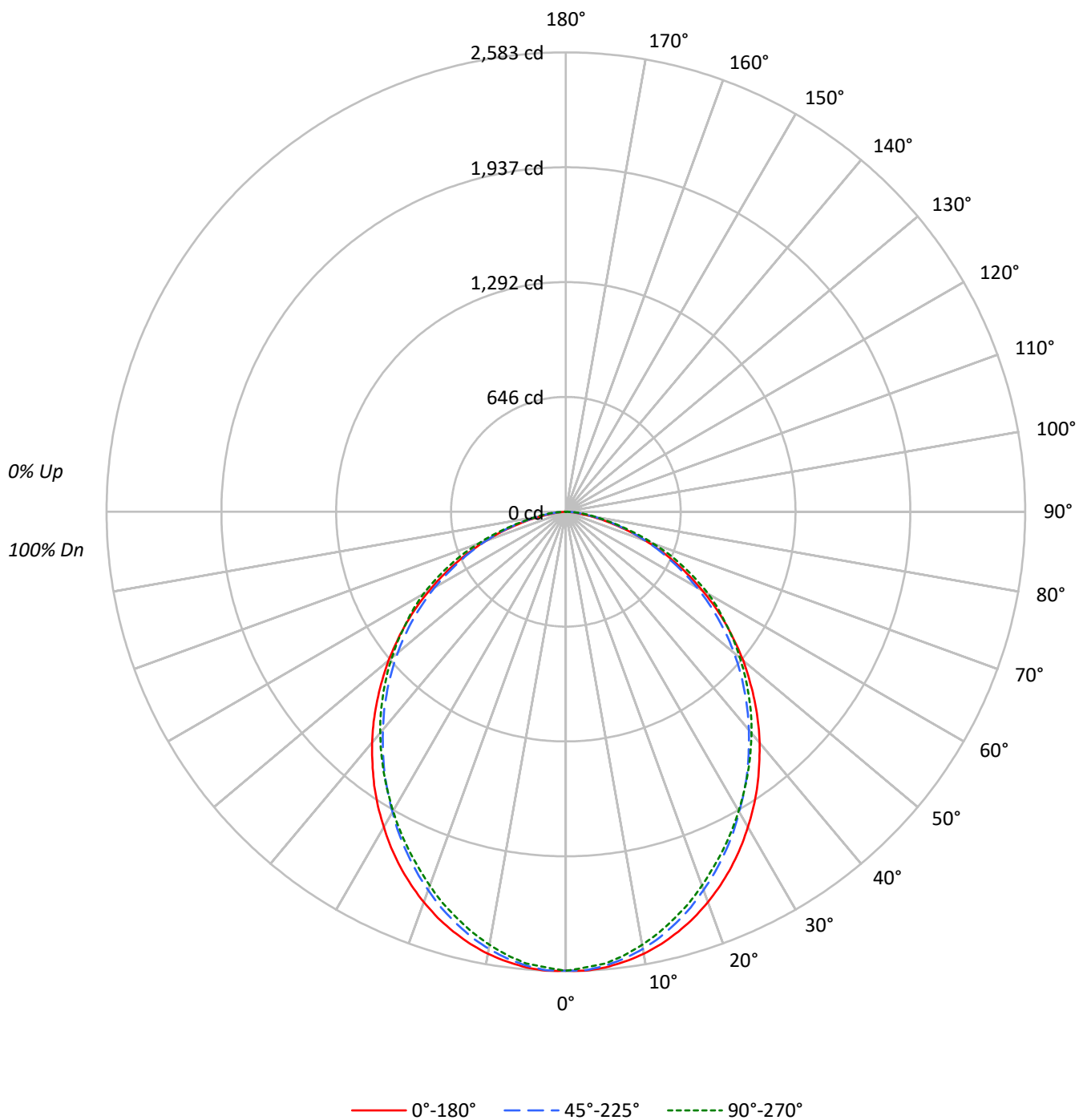
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6175.0 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 72.2  
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 | 97  | 107 | 103 | 99  | 96  | 99  | 96  | 93  |  | 95  | 92  | 90  |  | 91  |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 78  |  | 84  | 79  | 76  |  | 81  |
| 3   | 92  | 82  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  |  | 74  | 69  | 65  |  | 72  |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 56  |  | 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°  | 3472 | 3472 | 3472 |
| 5°  | 3473 | 3460 | 3443 |
| 10° | 3448 | 3410 | 3378 |
| 15° | 3405 | 3334 | 3295 |
| 20° | 3345 | 3241 | 3203 |
| 25° | 3271 | 3141 | 3110 |
| 30° | 3181 | 3029 | 3018 |
| 35° | 3086 | 2923 | 2933 |
| 40° | 2977 | 2812 | 2853 |
| 45° | 2855 | 2702 | 2765 |
| 50° | 2725 | 2585 | 2674 |
| 55° | 2574 | 2448 | 2577 |
| 60° | 2388 | 2291 | 2492 |
| 65° | 2173 | 2088 | 2316 |
| 70° | 1886 | 1877 | 2065 |
| 75° | 1505 | 1597 | 1695 |
| 80° | 1041 | 1234 | 1344 |
| 85° | 582  | 940  | 1223 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2855 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 242.2  | 3.9       |
| 10°-20°   | 675.2  | 10.9      |
| 20°-30°   | 980.9  | 15.9      |
| 30°-40°   | 1128.8 | 18.3      |
| 40°-50°   | 1117.3 | 18.1      |
| 50°-60°   | 956.7  | 15.5      |
| 60°-70°   | 674.7  | 10.9      |
| 70°-80°   | 327.8  | 5.3       |
| 80°-90°   | 71.4   | 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°    | 1898.3 | 30.7      |
| 0°-40°    | 3027.2 | 49.0      |
| 0°-60°    | 5101.1 | 82.6      |
| 0°-90°    | 6175.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6175.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2580 | 2580  | 2580 | 2580  | 2580 |      |
| 5°  | 2572 | 2569  | 2562 | 2544  | 2549 | 244  |
| 15° | 2444 | 2431  | 2394 | 2362  | 2365 | 689  |
| 25° | 2203 | 2171  | 2116 | 2089  | 2095 | 1014 |
| 35° | 1879 | 1835  | 1780 | 1773  | 1786 | 1174 |
| 45° | 1500 | 1460  | 1420 | 1438  | 1453 | 1157 |
| 55° | 1097 | 1060  | 1044 | 1075  | 1099 | 979  |
| 65° | 683  | 654   | 656  | 706   | 728  | 675  |
| 75° | 290  | 277   | 307  | 326   | 326  | 312  |
| 85° | 38   | 46    | 61   | 74    | 79   | 53   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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CATALOG NUMBER: MAE-G-4-120-1LO-LO-40-WDDCPH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2580.5 | 2580.5 | 2580.5 | 2580.5 | 2580.5 |
| 2.5°  | 2583.4 | 2585.6 | 2580.5 | 2561.1 | 2564.4 |
| 5°    | 2571.5 | 2569.3 | 2561.6 | 2543.5 | 2549.2 |
| 7.5°  | 2551.0 | 2547.4 | 2533.6 | 2512.2 | 2515.9 |
| 10°   | 2523.8 | 2516.7 | 2496.2 | 2469.3 | 2472.5 |
| 12.5° | 2488.5 | 2479.0 | 2450.0 | 2419.6 | 2423.0 |
| 15°   | 2444.2 | 2430.6 | 2393.8 | 2361.9 | 2365.2 |
| 17.5° | 2393.5 | 2377.9 | 2333.4 | 2298.8 | 2306.1 |
| 20°   | 2336.0 | 2315.0 | 2263.7 | 2230.9 | 2237.2 |
| 22.5° | 2272.7 | 2246.3 | 2192.5 | 2160.8 | 2165.8 |
| 25°   | 2203.0 | 2170.9 | 2115.7 | 2088.6 | 2094.6 |
| 27.5° | 2127.8 | 2092.6 | 2035.9 | 2011.1 | 2020.2 |
| 30°   | 2047.7 | 2009.7 | 1949.6 | 1932.5 | 1942.5 |
| 32.5° | 1965.4 | 1925.0 | 1865.7 | 1854.7 | 1864.7 |
| 35°   | 1878.9 | 1834.8 | 1779.6 | 1773.1 | 1785.5 |
| 37.5° | 1786.3 | 1744.0 | 1689.5 | 1693.8 | 1705.4 |
| 40°   | 1694.8 | 1650.8 | 1601.0 | 1610.4 | 1624.5 |
| 42.5° | 1599.5 | 1557.1 | 1511.7 | 1524.8 | 1541.3 |
| 45°   | 1500.2 | 1459.8 | 1420.0 | 1437.5 | 1453.2 |
| 47.5° | 1400.5 | 1360.5 | 1328.2 | 1348.7 | 1367.3 |
| 50°   | 1301.6 | 1263.2 | 1234.9 | 1259.7 | 1277.3 |
| 52.5° | 1197.8 | 1161.1 | 1140.9 | 1167.2 | 1189.7 |
| 55°   | 1097.1 | 1059.9 | 1043.6 | 1074.8 | 1098.6 |
| 57.5° | 993.1  | 962.6  | 948.6  | 985.1  | 1014.9 |
| 60°   | 887.5  | 857.4  | 851.4  | 897.7  | 925.9  |
| 62.5° | 784.3  | 754.8  | 752.1  | 806.3  | 826.6  |
| 65°   | 682.6  | 653.5  | 655.8  | 705.7  | 727.6  |
| 67.5° | 581.9  | 555.2  | 567.5  | 615.5  | 630.1  |
| 70°   | 479.3  | 455.5  | 477.1  | 517.6  | 524.8  |
| 72.5° | 383.1  | 363.0  | 392.2  | 420.5  | 422.3  |
| 75°   | 289.5  | 277.1  | 307.2  | 326.0  | 326.1  |
| 77.5° | 207.2  | 200.7  | 228.5  | 241.3  | 242.0  |
| 80°   | 134.3  | 137.3  | 159.2  | 169.2  | 173.5  |
| 82.5° | 78.3   | 85.3   | 102.4  | 119.3  | 123.9  |
| 85°   | 37.7   | 46.0   | 60.9   | 73.9   | 79.2   |
| 87.5° | 13.0   | 18.5   | 25.5   | 28.2   | 27.5   |
| 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 | 15.12            | 16.71 | 15.49 | 17.02 | 17.33 | 15.29          | 16.88 | 15.66 | 17.19 | 17.50 |
|                 | 3H   | 16.57            | 18.00 | 16.95 | 18.32 | 18.68 | 16.94          | 18.36 | 17.31 | 18.69 | 19.05 |
|                 | 4H   | 17.00            | 18.34 | 17.40 | 18.69 | 19.06 | 17.44          | 18.78 | 17.84 | 19.12 | 19.50 |
|                 | 6H   | 17.22            | 18.46 | 17.63 | 18.82 | 19.21 | 17.73          | 18.97 | 18.15 | 19.34 | 19.73 |
|                 | 8H   | 17.25            | 18.43 | 17.68 | 18.82 | 19.22 | 17.82          | 19.00 | 18.25 | 19.39 | 19.79 |
|                 | 12H  | 17.26            | 18.39 | 17.69 | 18.77 | 19.20 | 17.88          | 19.01 | 18.31 | 19.39 | 19.82 |
| 4H              | 2H   | 15.64            | 16.98 | 16.04 | 17.32 | 17.70 | 15.78          | 17.11 | 16.18 | 17.46 | 17.84 |
|                 | 3H   | 17.27            | 18.39 | 17.68 | 18.79 | 19.19 | 17.63          | 18.74 | 18.04 | 19.14 | 19.54 |
|                 | 4H   | 17.79            | 18.79 | 18.22 | 19.20 | 19.64 | 18.24          | 19.24 | 18.67 | 19.66 | 20.10 |
|                 | 6H   | 18.09            | 18.96 | 18.54 | 19.40 | 19.86 | 18.64          | 19.51 | 19.09 | 19.95 | 20.41 |
|                 | 8H   | 18.14            | 18.96 | 18.60 | 19.40 | 19.87 | 18.76          | 19.58 | 19.22 | 20.02 | 20.49 |
|                 | 12H  | 18.16            | 18.90 | 18.65 | 19.37 | 19.84 | 18.86          | 19.59 | 19.34 | 20.07 | 20.54 |
| 8H              | 4H   | 18.01            | 18.83 | 18.47 | 19.27 | 19.74 | 18.42          | 19.24 | 18.88 | 19.68 | 20.15 |
|                 | 6H   | 18.38            | 19.05 | 18.87 | 19.54 | 20.02 | 18.90          | 19.58 | 19.40 | 20.06 | 20.54 |
|                 | 8H   | 18.47            | 19.07 | 18.98 | 19.58 | 20.07 | 19.08          | 19.68 | 19.59 | 20.19 | 20.68 |
|                 | 12H  | 18.52            | 19.05 | 19.03 | 19.54 | 20.11 | 19.23          | 19.77 | 19.74 | 20.26 | 20.82 |
| 12H             | 4H   | 18.02            | 18.75 | 18.50 | 19.23 | 19.70 | 18.42          | 19.15 | 18.90 | 19.63 | 20.10 |
|                 | 6H   | 18.40            | 19.00 | 18.91 | 19.51 | 20.00 | 18.91          | 19.51 | 19.42 | 20.02 | 20.51 |
|                 | 8H   | 18.53            | 19.06 | 19.04 | 19.55 | 20.12 | 19.13          | 19.66 | 19.63 | 20.15 | 20.71 |