

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: P1498742

Luminaire Tested: MAE-G-2-120-3LO-HI-50-WDDCPH

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498742  
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-2-120-3LO-HI-50-WDDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 LO ambient , HI exam illumination levels  
Light Source: -  
Ballast/Driver: -

**Summary**

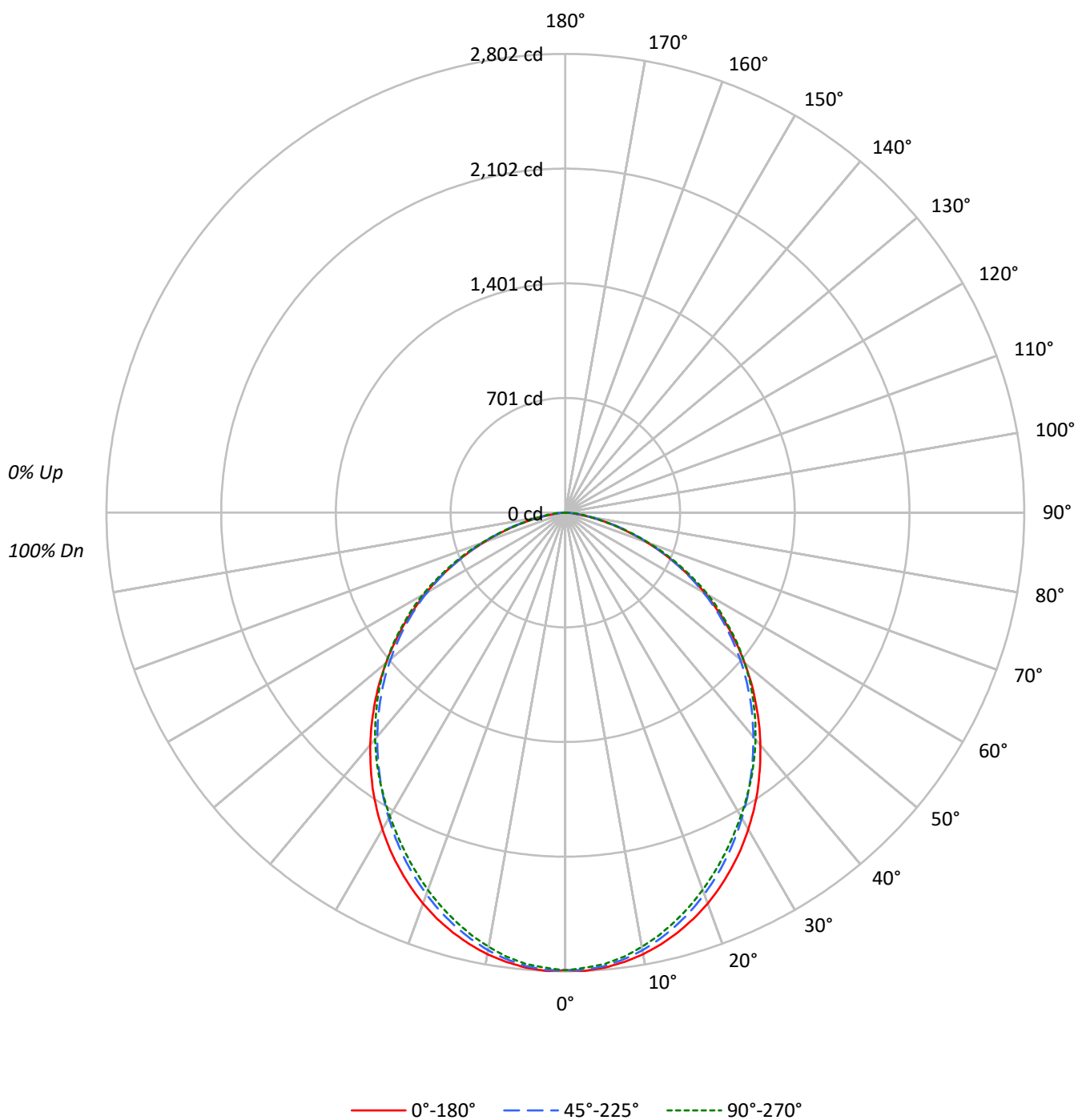
Lumens per Lamp: N/A  
Luminaire Lumens: 6802.0 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 81.9  
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  | 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  | 44  | 39  | 51  | 44  | 38  |  | 50  | 43  | 38  |  | 48  |
| 8   | 62  | 49  | 41  | 35  | 61  | 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  | 42  | 34  | 29  | 53  | 41  | 34  | 29  | 40  | 33  | 28  |  | 39  | 33  | 28  |  | 38  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7522 | 7522 | 7522 |
| 5°  | 7535 | 7508 | 7475 |
| 10° | 7484 | 7417 | 7360 |
| 15° | 7395 | 7276 | 7202 |
| 20° | 7277 | 7105 | 7023 |
| 25° | 7121 | 6912 | 6833 |
| 30° | 6942 | 6698 | 6656 |
| 35° | 6739 | 6483 | 6502 |
| 40° | 6509 | 6274 | 6345 |
| 45° | 6259 | 6062 | 6175 |
| 50° | 5985 | 5829 | 5982 |
| 55° | 5674 | 5563 | 5729 |
| 60° | 5292 | 5230 | 5425 |
| 65° | 4818 | 4799 | 4940 |
| 70° | 4163 | 4227 | 4297 |
| 75° | 3322 | 3462 | 3414 |
| 80° | 2259 | 2438 | 2473 |
| 85° | 1186 | 1670 | 2137 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6259 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 262.8  | 3.9       |
| 10°-20°   | 735.8  | 10.8      |
| 20°-30°   | 1075.3 | 15.8      |
| 30°-40°   | 1246.0 | 18.3      |
| 40°-50°   | 1243.0 | 18.3      |
| 50°-60°   | 1070.6 | 15.7      |
| 60°-70°   | 750.1  | 11.0      |
| 70°-80°   | 350.8  | 5.2       |
| 80°-90°   | 67.5   | 1.0       |
| 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°    | 2073.9 | 30.5      |
| 0°-40°    | 3319.9 | 48.8      |
| 0°-60°    | 5633.6 | 82.8      |
| 0°-90°    | 6802.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6802.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2795 | 2795  | 2795 | 2795  | 2795 |      |
| 5°  | 2789 | 2779  | 2779 | 2763  | 2767 | 265  |
| 15° | 2654 | 2635  | 2612 | 2583  | 2585 | 748  |
| 25° | 2398 | 2368  | 2328 | 2296  | 2301 | 1104 |
| 35° | 2052 | 2013  | 1974 | 1966  | 1979 | 1282 |
| 45° | 1645 | 1611  | 1593 | 1609  | 1623 | 1269 |
| 55° | 1210 | 1182  | 1186 | 1211  | 1221 | 1080 |
| 65° | 757  | 741   | 754  | 771   | 776  | 748  |
| 75° | 320  | 316   | 333  | 332   | 328  | 343  |
| 85° | 38   | 43    | 54   | 64    | 69   | 56   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2795.4 | 2795.4 | 2795.4 | 2795.4 | 2795.4 |
| 2.5°  | 2801.7 | 2792.8 | 2795.4 | 2782.4 | 2782.3 |
| 5°    | 2789.4 | 2779.4 | 2779.4 | 2762.8 | 2767.2 |
| 7.5°  | 2767.9 | 2756.3 | 2751.6 | 2732.4 | 2736.0 |
| 10°   | 2738.9 | 2724.2 | 2714.2 | 2691.3 | 2693.5 |
| 12.5° | 2700.2 | 2683.8 | 2667.5 | 2640.4 | 2643.7 |
| 15°   | 2654.4 | 2635.4 | 2611.6 | 2582.6 | 2585.0 |
| 17.5° | 2601.6 | 2579.5 | 2550.0 | 2517.3 | 2522.0 |
| 20°   | 2541.0 | 2516.0 | 2480.9 | 2446.8 | 2452.4 |
| 22.5° | 2473.0 | 2445.3 | 2406.4 | 2373.4 | 2378.2 |
| 25°   | 2398.2 | 2368.5 | 2327.9 | 2296.3 | 2301.2 |
| 27.5° | 2319.5 | 2286.2 | 2243.4 | 2216.4 | 2222.0 |
| 30°   | 2234.2 | 2198.9 | 2155.6 | 2133.0 | 2142.1 |
| 32.5° | 2144.2 | 2107.9 | 2066.1 | 2050.9 | 2061.8 |
| 35°   | 2051.5 | 2012.8 | 1973.5 | 1966.3 | 1979.3 |
| 37.5° | 1952.0 | 1916.7 | 1880.7 | 1881.5 | 1894.5 |
| 40°   | 1852.9 | 1816.4 | 1786.0 | 1792.2 | 1806.3 |
| 42.5° | 1750.5 | 1716.1 | 1690.5 | 1702.8 | 1715.5 |
| 45°   | 1644.6 | 1611.1 | 1593.0 | 1608.6 | 1622.6 |
| 47.5° | 1539.8 | 1506.5 | 1494.4 | 1513.1 | 1528.8 |
| 50°   | 1429.7 | 1399.4 | 1392.3 | 1415.5 | 1428.8 |
| 52.5° | 1318.7 | 1289.9 | 1289.6 | 1315.0 | 1328.8 |
| 55°   | 1209.5 | 1181.8 | 1185.7 | 1211.1 | 1221.2 |
| 57.5° | 1096.2 | 1074.3 | 1080.7 | 1104.3 | 1115.8 |
| 60°   | 983.3  | 962.9  | 971.8  | 996.3  | 1008.0 |
| 62.5° | 870.0  | 852.6  | 863.4  | 886.2  | 892.5  |
| 65°   | 756.6  | 741.2  | 753.7  | 770.9  | 775.8  |
| 67.5° | 641.5  | 630.6  | 645.4  | 659.8  | 662.2  |
| 70°   | 529.1  | 518.0  | 537.2  | 547.7  | 546.1  |
| 72.5° | 419.9  | 413.7  | 431.1  | 438.0  | 433.0  |
| 75°   | 319.5  | 315.6  | 333.0  | 332.4  | 328.4  |
| 77.5° | 226.4  | 225.1  | 239.3  | 237.3  | 236.3  |
| 80°   | 145.8  | 149.8  | 157.3  | 160.4  | 159.6  |
| 82.5° | 82.3   | 88.4   | 94.5   | 106.2  | 111.0  |
| 85°   | 38.4   | 43.3   | 54.1   | 64.5   | 69.2   |
| 87.5° | 13.0   | 16.8   | 22.6   | 24.5   | 23.1   |
| 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 | 17.94            | 19.53 | 18.31 | 19.84 | 20.16 | 18.13          | 19.71 | 18.49 | 20.02 | 20.34 |
|                 | 3H   | 19.41            | 20.83 | 19.78 | 21.16 | 21.52 | 19.62          | 21.05 | 20.00 | 21.38 | 21.74 |
|                 | 4H   | 19.83            | 21.17 | 20.23 | 21.52 | 21.90 | 20.06          | 21.40 | 20.46 | 21.74 | 22.12 |
|                 | 6H   | 20.04            | 21.28 | 20.46 | 21.65 | 22.04 | 20.28          | 21.52 | 20.69 | 21.89 | 22.28 |
|                 | 8H   | 20.07            | 21.25 | 20.50 | 21.64 | 22.04 | 20.34          | 21.52 | 20.76 | 21.90 | 22.30 |
|                 | 12H  | 20.07            | 21.20 | 20.50 | 21.58 | 22.01 | 20.37          | 21.50 | 20.80 | 21.88 | 22.31 |
| 4H              | 2H   | 18.50            | 19.84 | 18.90 | 20.19 | 20.57 | 18.65          | 19.99 | 19.05 | 20.34 | 20.71 |
|                 | 3H   | 20.14            | 21.26 | 20.55 | 21.65 | 22.05 | 20.34          | 21.45 | 20.75 | 21.85 | 22.25 |
|                 | 4H   | 20.66            | 21.66 | 21.09 | 22.07 | 22.51 | 20.87          | 21.87 | 21.30 | 22.28 | 22.72 |
|                 | 6H   | 20.94            | 21.82 | 21.40 | 22.26 | 22.72 | 21.18          | 22.05 | 21.63 | 22.49 | 22.95 |
|                 | 8H   | 20.99            | 21.80 | 21.45 | 22.25 | 22.71 | 21.25          | 22.07 | 21.71 | 22.51 | 22.98 |
|                 | 12H  | 21.00            | 21.73 | 21.49 | 22.21 | 22.68 | 21.31          | 22.04 | 21.79 | 22.52 | 22.99 |
| 8H              | 4H   | 20.85            | 21.67 | 21.32 | 22.11 | 22.58 | 21.05          | 21.86 | 21.51 | 22.30 | 22.77 |
|                 | 6H   | 21.20            | 21.87 | 21.69 | 22.36 | 22.84 | 21.42          | 22.09 | 21.91 | 22.58 | 23.05 |
|                 | 8H   | 21.27            | 21.88 | 21.78 | 22.38 | 22.87 | 21.53          | 22.13 | 22.04 | 22.64 | 23.13 |
|                 | 12H  | 21.31            | 21.84 | 21.82 | 22.34 | 22.90 | 21.63          | 22.17 | 22.14 | 22.66 | 23.22 |
| 12H             | 4H   | 20.86            | 21.58 | 21.34 | 22.06 | 22.53 | 21.04          | 21.77 | 21.52 | 22.25 | 22.72 |
|                 | 6H   | 21.20            | 21.81 | 21.71 | 22.31 | 22.80 | 21.41          | 22.02 | 21.93 | 22.53 | 23.01 |
|                 | 8H   | 21.31            | 21.84 | 21.82 | 22.34 | 22.90 | 21.57          | 22.10 | 22.08 | 22.59 | 23.15 |