

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: P1498867

Luminaire Tested: MAE-G-2-120-3STD-STD-30-VRDCPH

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498867  
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-2-120-3STD-STD-30-VRDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient , STD exam illumination levels  
Light Source: -  
Ballast/Driver: -

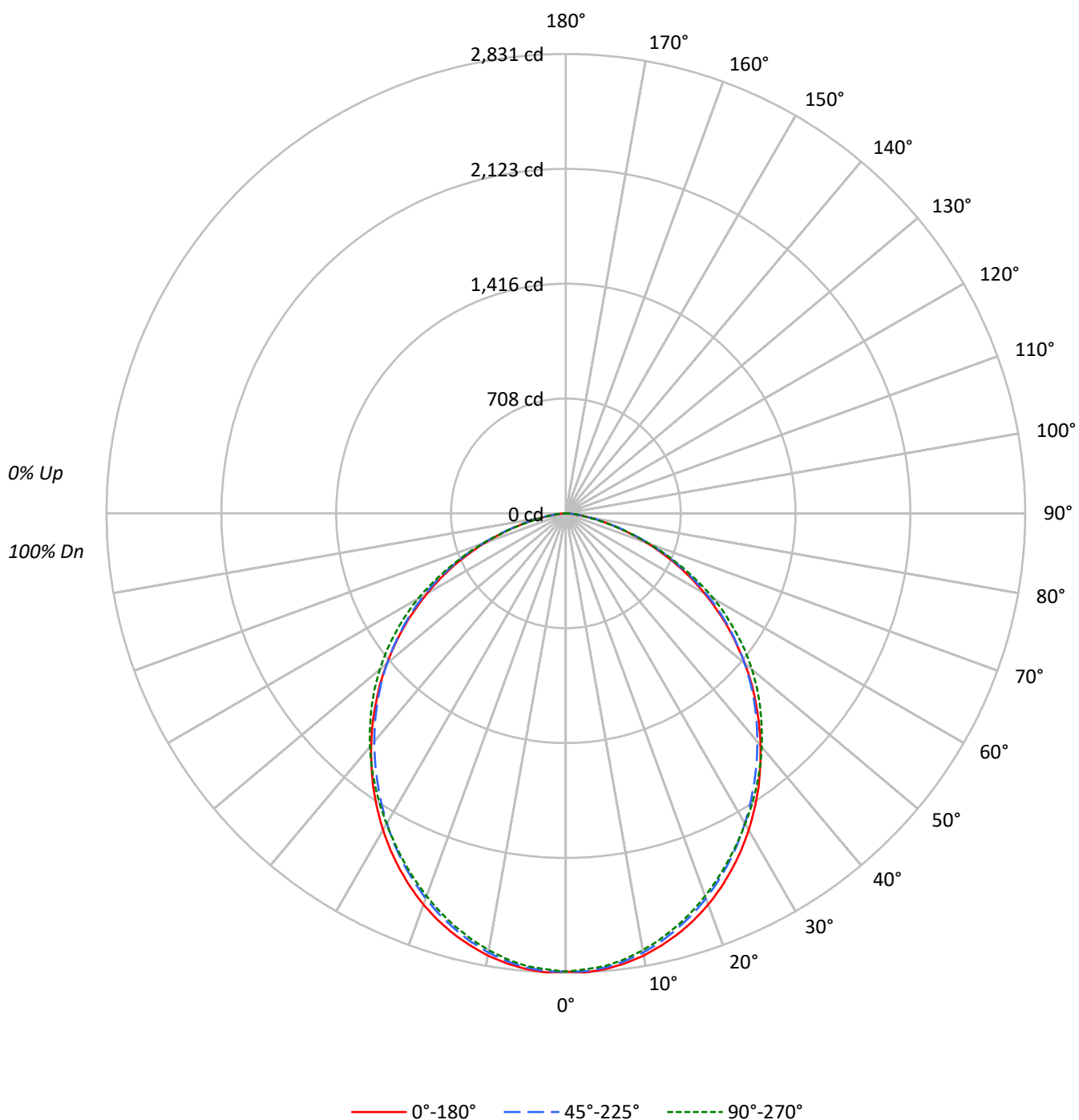
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6941.0 lumens  
Efficiency: N/A  
Efficacy: 79.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 87.1  
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  |
| 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°  | 7600 | 7600 | 7600 |
| 5°  | 7613 | 7589 | 7563 |
| 10° | 7561 | 7509 | 7469 |
| 15° | 7469 | 7383 | 7340 |
| 20° | 7347 | 7232 | 7188 |
| 25° | 7187 | 7054 | 7021 |
| 30° | 7003 | 6854 | 6867 |
| 35° | 6795 | 6650 | 6736 |
| 40° | 6559 | 6452 | 6598 |
| 45° | 6303 | 6249 | 6445 |
| 50° | 6024 | 6020 | 6266 |
| 55° | 5708 | 5757 | 6009 |
| 60° | 5317 | 5419 | 5667 |
| 65° | 4832 | 4965 | 5079 |
| 70° | 4163 | 4319 | 4297 |
| 75° | 3309 | 3441 | 3236 |
| 80° | 2230 | 2273 | 2134 |
| 85° | 1149 | 1439 | 1763 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6445 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 265.9  | 3.8       |
| 10°-20°   | 746.7  | 10.8      |
| 20°-30°   | 1096.0 | 15.8      |
| 30°-40°   | 1275.3 | 18.4      |
| 40°-50°   | 1277.5 | 18.4      |
| 50°-60°   | 1103.6 | 15.9      |
| 60°-70°   | 768.5  | 11.1      |
| 70°-80°   | 346.6  | 5.0       |
| 80°-90°   | 60.8   | 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°    | 2108.6 | 30.4      |
| 0°-40°    | 3384.0 | 48.8      |
| 0°-60°    | 5765.1 | 83.1      |
| 0°-90°    | 6941.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6941.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2824 | 2824  | 2824 | 2824  | 2824 |      |
| 5°  | 2818 | 2807  | 2809 | 2796  | 2800 | 267  |
| 15° | 2681 | 2664  | 2650 | 2631  | 2635 | 756  |
| 25° | 2420 | 2398  | 2376 | 2356  | 2365 | 1114 |
| 35° | 2068 | 2041  | 2024 | 2032  | 2050 | 1292 |
| 45° | 1656 | 1636  | 1642 | 1673  | 1694 | 1278 |
| 55° | 1217 | 1202  | 1227 | 1266  | 1281 | 1086 |
| 65° | 759  | 755   | 780  | 794   | 798  | 750  |
| 75° | 318  | 320   | 331  | 320   | 311  | 342  |
| 85° | 37   | 40    | 47   | 54    | 57   | 55   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2824.2 | 2824.2 | 2824.2 | 2824.2 | 2824.2 |
| 2.5°  | 2831.2 | 2819.8 | 2824.2 | 2813.8 | 2811.9 |
| 5°    | 2818.5 | 2806.7 | 2809.3 | 2795.8 | 2799.7 |
| 7.5°  | 2796.7 | 2784.0 | 2783.2 | 2768.4 | 2771.8 |
| 10°   | 2766.9 | 2752.0 | 2747.9 | 2730.8 | 2733.4 |
| 12.5° | 2727.5 | 2711.9 | 2703.6 | 2684.1 | 2688.4 |
| 15°   | 2681.1 | 2663.8 | 2650.3 | 2630.8 | 2634.7 |
| 17.5° | 2627.4 | 2608.1 | 2591.7 | 2569.2 | 2575.8 |
| 20°   | 2565.6 | 2544.8 | 2525.3 | 2501.4 | 2509.9 |
| 22.5° | 2496.5 | 2474.4 | 2452.2 | 2430.6 | 2439.0 |
| 25°   | 2420.5 | 2397.9 | 2375.9 | 2356.0 | 2364.7 |
| 27.5° | 2340.4 | 2315.2 | 2292.9 | 2278.1 | 2287.8 |
| 30°   | 2253.8 | 2227.6 | 2205.8 | 2196.0 | 2209.9 |
| 32.5° | 2162.3 | 2136.3 | 2116.5 | 2115.0 | 2131.3 |
| 35°   | 2068.3 | 2040.9 | 2024.3 | 2031.5 | 2050.4 |
| 37.5° | 1967.3 | 1944.0 | 1931.5 | 1947.2 | 1966.4 |
| 40°   | 1867.1 | 1842.8 | 1836.6 | 1857.8 | 1878.2 |
| 42.5° | 1763.5 | 1741.7 | 1740.4 | 1768.3 | 1787.1 |
| 45°   | 1656.3 | 1636.0 | 1642.0 | 1672.9 | 1693.6 |
| 47.5° | 1550.9 | 1530.1 | 1541.9 | 1575.8 | 1598.2 |
| 50°   | 1438.9 | 1421.6 | 1438.1 | 1476.5 | 1496.8 |
| 52.5° | 1327.4 | 1310.9 | 1333.3 | 1373.8 | 1393.5 |
| 55°   | 1216.7 | 1201.6 | 1227.0 | 1266.4 | 1280.7 |
| 57.5° | 1102.1 | 1092.7 | 1119.2 | 1154.0 | 1169.0 |
| 60°   | 988.0  | 979.8  | 1006.9 | 1039.3 | 1052.9 |
| 62.5° | 873.7  | 868.3  | 894.4  | 921.1  | 925.9  |
| 65°   | 758.8  | 755.0  | 779.7  | 794.5  | 797.6  |
| 67.5° | 642.5  | 642.2  | 665.1  | 673.2  | 673.2  |
| 70°   | 529.1  | 527.5  | 549.0  | 551.8  | 546.2  |
| 72.5° | 418.9  | 420.7  | 435.2  | 432.9  | 423.6  |
| 75°   | 318.3  | 320.2  | 331.0  | 320.0  | 311.2  |
| 77.5° | 224.7  | 226.6  | 232.0  | 219.7  | 214.4  |
| 80°   | 143.9  | 148.3  | 146.7  | 141.4  | 137.7  |
| 82.5° | 80.5   | 85.2   | 83.8   | 90.7   | 93.7   |
| 85°   | 37.2   | 40.2   | 46.6   | 54.0   | 57.1   |
| 87.5° | 12.7   | 15.3   | 19.1   | 20.5   | 19.2   |
| 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 | 17.98            | 19.56 | 18.34 | 19.88 | 20.19 | 18.36          | 19.95 | 18.73 | 20.26 | 20.58 |
|                 | 3H   | 19.43            | 20.85 | 19.80 | 21.18 | 21.54 | 19.78          | 21.21 | 20.16 | 21.53 | 21.90 |
|                 | 4H   | 19.85            | 21.18 | 20.24 | 21.53 | 21.91 | 20.16          | 21.49 | 20.56 | 21.84 | 22.22 |
|                 | 6H   | 20.05            | 21.28 | 20.46 | 21.65 | 22.04 | 20.32          | 21.55 | 20.73 | 21.92 | 22.31 |
|                 | 8H   | 20.07            | 21.25 | 20.50 | 21.64 | 22.04 | 20.34          | 21.52 | 20.77 | 21.91 | 22.31 |
|                 | 12H  | 20.07            | 21.20 | 20.50 | 21.58 | 22.01 | 20.36          | 21.49 | 20.79 | 21.87 | 22.30 |
| 4H              | 2H   | 18.56            | 19.90 | 18.96 | 20.25 | 20.62 | 18.88          | 20.21 | 19.27 | 20.56 | 20.94 |
|                 | 3H   | 20.19            | 21.30 | 20.60 | 21.70 | 22.10 | 20.48          | 21.59 | 20.89 | 21.99 | 22.39 |
|                 | 4H   | 20.69            | 21.69 | 21.12 | 22.10 | 22.54 | 20.94          | 21.94 | 21.37 | 22.35 | 22.79 |
|                 | 6H   | 20.97            | 21.84 | 21.42 | 22.28 | 22.73 | 21.17          | 22.04 | 21.62 | 22.48 | 22.94 |
|                 | 8H   | 21.01            | 21.82 | 21.47 | 22.26 | 22.73 | 21.21          | 22.03 | 21.68 | 22.47 | 22.93 |
|                 | 12H  | 21.02            | 21.74 | 21.50 | 22.22 | 22.69 | 21.25          | 21.97 | 21.73 | 22.45 | 22.92 |
| 8H              | 4H   | 20.87            | 21.69 | 21.34 | 22.13 | 22.60 | 21.10          | 21.91 | 21.56 | 22.36 | 22.82 |
|                 | 6H   | 21.20            | 21.87 | 21.70 | 22.36 | 22.84 | 21.38          | 22.05 | 21.87 | 22.54 | 23.02 |
|                 | 8H   | 21.27            | 21.87 | 21.78 | 22.38 | 22.86 | 21.45          | 22.05 | 21.96 | 22.56 | 23.05 |
|                 | 12H  | 21.30            | 21.83 | 21.81 | 22.32 | 22.88 | 21.52          | 22.04 | 22.02 | 22.54 | 23.10 |
| 12H             | 4H   | 20.87            | 21.60 | 21.35 | 22.07 | 22.54 | 21.10          | 21.82 | 21.58 | 22.30 | 22.77 |
|                 | 6H   | 21.20            | 21.80 | 21.71 | 22.31 | 22.79 | 21.37          | 21.97 | 21.88 | 22.48 | 22.97 |
|                 | 8H   | 21.29            | 21.82 | 21.80 | 22.31 | 22.88 | 21.48          | 22.01 | 21.99 | 22.50 | 23.06 |