

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: P1498814

Luminaire Tested: MAE-G-2-120-3STD-50-WDDCPH

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498814  
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-50-WDDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient illumination levels  
Light Source: -  
Ballast/Driver: -

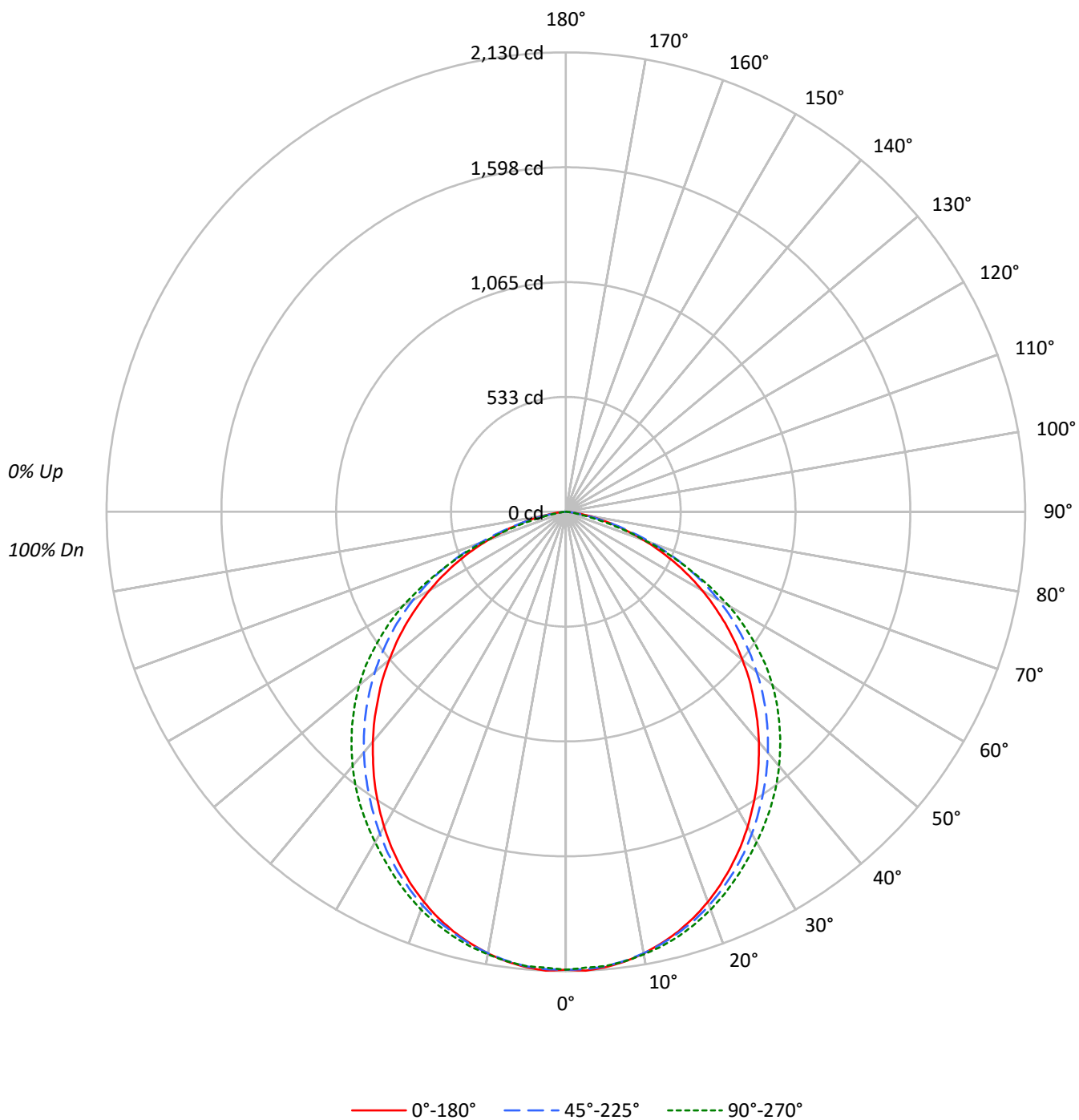
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5381.0 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 52.3  
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 | 102 | 98  | 107 | 103 | 100 | 96  | 99  | 96  | 93  |  | 95  | 93  | 91  |  | 92  |
| 2   | 100 | 93  | 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  |  | 75  | 69  | 65  |  | 72  |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 64  | 57  | 69  | 62  | 57  |  | 67  | 61  | 56  |  | 65  |
| 5   | 78  | 65  | 56  | 50  | 76  | 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  | 36  | 31  | 43  | 36  | 31  |  | 42  | 36  | 31  |  | 41  |
| 10  | 54  | 41  | 34  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  |  | 39  | 33  | 28  |  | 38  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5713 | 5713 | 5713 |
| 5°  | 5726 | 5714 | 5711 |
| 10° | 5683 | 5681 | 5694 |
| 15° | 5611 | 5629 | 5670 |
| 20° | 5513 | 5564 | 5622 |
| 25° | 5385 | 5471 | 5557 |
| 30° | 5239 | 5358 | 5499 |
| 35° | 5075 | 5236 | 5457 |
| 40° | 4890 | 5118 | 5403 |
| 45° | 4691 | 4991 | 5334 |
| 50° | 4474 | 4837 | 5238 |
| 55° | 4233 | 4650 | 5037 |
| 60° | 3929 | 4393 | 4700 |
| 65° | 3547 | 4007 | 4025 |
| 70° | 3028 | 3364 | 3128 |
| 75° | 2378 | 2455 | 1925 |
| 80° | 1551 | 1263 | 745  |
| 85° | 744  | 500  | 395  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5334 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 200.6  | 3.7       |
| 10°-20°   | 569.4  | 10.6      |
| 20°-30°   | 846.8  | 15.7      |
| 30°-40°   | 997.8  | 18.5      |
| 40°-50°   | 1011.7 | 18.8      |
| 50°-60°   | 881.6  | 16.4      |
| 60°-70°   | 602.9  | 11.2      |
| 70°-80°   | 242.2  | 4.5       |
| 80°-90°   | 28.1   | 0.5       |
| 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°    | 1616.7 | 30.0      |
| 0°-40°    | 2614.5 | 48.6      |
| 0°-60°    | 4507.8 | 83.8      |
| 0°-90°    | 5381.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5381.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2123 | 2123  | 2123 | 2123  | 2123 |      |
| 5°  | 2120 | 2107  | 2115 | 2113  | 2114 | 201  |
| 15° | 2014 | 2005  | 2020 | 2029  | 2035 | 567  |
| 25° | 1814 | 1814  | 1843 | 1856  | 1872 | 835  |
| 35° | 1545 | 1552  | 1594 | 1633  | 1661 | 965  |
| 45° | 1233 | 1249  | 1312 | 1370  | 1402 | 951  |
| 55° | 902  | 921   | 991  | 1053  | 1074 | 805  |
| 65° | 557  | 582   | 629  | 634   | 632  | 551  |
| 75° | 229  | 244   | 236  | 203   | 185  | 246  |
| 85° | 24   | 22    | 16   | 14    | 13   | 37   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2123.1 | 2123.1 | 2123.1 | 2123.1 | 2123.1 |
| 2.5°  | 2129.9 | 2115.7 | 2123.1 | 2121.6 | 2116.1 |
| 5°    | 2119.6 | 2106.8 | 2115.2 | 2112.8 | 2114.2 |
| 7.5°  | 2102.9 | 2091.2 | 2100.0 | 2099.5 | 2101.9 |
| 10°   | 2079.9 | 2068.1 | 2078.9 | 2080.9 | 2083.8 |
| 12.5° | 2049.4 | 2039.7 | 2052.9 | 2056.8 | 2062.7 |
| 15°   | 2014.1 | 2005.3 | 2020.5 | 2028.8 | 2035.2 |
| 17.5° | 1972.8 | 1965.4 | 1985.1 | 1993.0 | 2001.8 |
| 20°   | 1925.2 | 1919.9 | 1942.9 | 1950.3 | 1963.1 |
| 22.5° | 1872.2 | 1869.3 | 1893.3 | 1904.6 | 1919.3 |
| 25°   | 1813.8 | 1814.3 | 1842.7 | 1856.1 | 1871.7 |
| 27.5° | 1752.5 | 1753.4 | 1785.9 | 1804.4 | 1821.1 |
| 30°   | 1686.2 | 1689.1 | 1724.5 | 1747.6 | 1769.6 |
| 32.5° | 1616.0 | 1621.8 | 1660.1 | 1691.6 | 1716.1 |
| 35°   | 1544.8 | 1551.6 | 1593.9 | 1633.1 | 1661.1 |
| 37.5° | 1467.8 | 1479.0 | 1526.7 | 1573.3 | 1602.2 |
| 40°   | 1392.1 | 1403.4 | 1456.9 | 1508.4 | 1538.0 |
| 42.5° | 1314.1 | 1328.3 | 1385.3 | 1442.7 | 1471.1 |
| 45°   | 1232.6 | 1249.2 | 1311.6 | 1370.5 | 1401.5 |
| 47.5° | 1154.5 | 1169.3 | 1235.0 | 1296.4 | 1328.3 |
| 50°   | 1068.6 | 1087.3 | 1155.5 | 1219.8 | 1251.3 |
| 52.5° | 986.7  | 1003.8 | 1074.0 | 1139.9 | 1168.3 |
| 55°   | 902.3  | 921.4  | 991.1  | 1053.4 | 1073.6 |
| 57.5° | 815.8  | 838.9  | 906.2  | 958.3  | 977.4  |
| 60°   | 730.0  | 753.0  | 816.3  | 859.1  | 873.3  |
| 62.5° | 644.5  | 669.1  | 724.6  | 753.0  | 753.0  |
| 65°   | 557.1  | 582.2  | 629.3  | 634.2  | 632.2  |
| 67.5° | 469.8  | 494.9  | 530.7  | 521.8  | 515.9  |
| 70°   | 384.8  | 406.4  | 427.6  | 411.3  | 397.6  |
| 72.5° | 302.4  | 323.0  | 326.5  | 302.9  | 285.7  |
| 75°   | 228.7  | 244.0  | 236.1  | 202.8  | 185.1  |
| 77.5° | 159.5  | 168.4  | 151.7  | 117.8  | 103.6  |
| 80°   | 100.1  | 104.0  | 81.5   | 57.4   | 48.1   |
| 82.5° | 54.0   | 54.5   | 35.4   | 29.0   | 27.0   |
| 85°   | 24.1   | 21.6   | 16.2   | 14.2   | 12.8   |
| 87.5° | 8.4    | 7.4    | 5.9    | 5.4    | 4.4    |
| 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 | 16.98            | 18.56 | 17.35 | 18.88 | 19.19 | 17.97          | 19.55 | 18.33 | 19.86 | 20.18 |
|                 | 3H   | 18.39            | 19.81 | 18.77 | 20.14 | 20.50 | 19.17          | 20.59 | 19.55 | 20.92 | 21.28 |
|                 | 4H   | 18.78            | 20.12 | 19.18 | 20.47 | 20.84 | 19.39          | 20.72 | 19.78 | 21.07 | 21.44 |
|                 | 6H   | 18.96            | 20.19 | 19.37 | 20.56 | 20.95 | 19.40          | 20.64 | 19.81 | 21.00 | 21.39 |
|                 | 8H   | 18.97            | 20.15 | 19.40 | 20.54 | 20.94 | 19.38          | 20.55 | 19.81 | 20.94 | 21.34 |
|                 | 12H  | 18.97            | 20.09 | 19.40 | 20.47 | 20.90 | 19.36          | 20.48 | 19.79 | 20.86 | 21.29 |
| 4H              | 2H   | 17.65            | 18.99 | 18.05 | 19.33 | 19.71 | 18.44          | 19.78 | 18.84 | 20.13 | 20.50 |
|                 | 3H   | 19.22            | 20.33 | 19.63 | 20.73 | 21.13 | 19.81          | 20.92 | 20.22 | 21.32 | 21.72 |
|                 | 4H   | 19.70            | 20.69 | 20.13 | 21.11 | 21.54 | 20.09          | 21.08 | 20.52 | 21.49 | 21.93 |
|                 | 6H   | 19.94            | 20.80 | 20.39 | 21.24 | 21.70 | 20.14          | 21.00 | 20.59 | 21.44 | 21.90 |
|                 | 8H   | 19.96            | 20.76 | 20.42 | 21.21 | 21.67 | 20.11          | 20.92 | 20.57 | 21.36 | 21.83 |
|                 | 12H  | 19.96            | 20.68 | 20.44 | 21.16 | 21.63 | 20.09          | 20.81 | 20.57 | 21.29 | 21.76 |
| 8H              | 4H   | 19.84            | 20.65 | 20.30 | 21.09 | 21.56 | 20.20          | 21.01 | 20.67 | 21.45 | 21.92 |
|                 | 6H   | 20.12            | 20.78 | 20.61 | 21.27 | 21.75 | 20.26          | 20.92 | 20.76 | 21.42 | 21.89 |
|                 | 8H   | 20.16            | 20.75 | 20.67 | 21.26 | 21.75 | 20.24          | 20.83 | 20.75 | 21.34 | 21.83 |
|                 | 12H  | 20.17            | 20.69 | 20.68 | 21.19 | 21.75 | 20.23          | 20.75 | 20.73 | 21.24 | 21.80 |
| 12H             | 4H   | 19.82            | 20.54 | 20.31 | 21.02 | 21.49 | 20.19          | 20.91 | 20.67 | 21.39 | 21.86 |
|                 | 6H   | 20.09            | 20.68 | 20.60 | 21.19 | 21.68 | 20.24          | 20.83 | 20.75 | 21.34 | 21.83 |
|                 | 8H   | 20.15            | 20.68 | 20.66 | 21.17 | 21.73 | 20.24          | 20.76 | 20.75 | 21.25 | 21.82 |