

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: P1499159

Luminaire Tested: MAE-G-4-120-1STD-STD-35-90-WDDCPH

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1499159  
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-4-120-1STD-STD-35-90-WDDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient , STD exam illumination levels  
Light Source: -  
Ballast/Driver: -

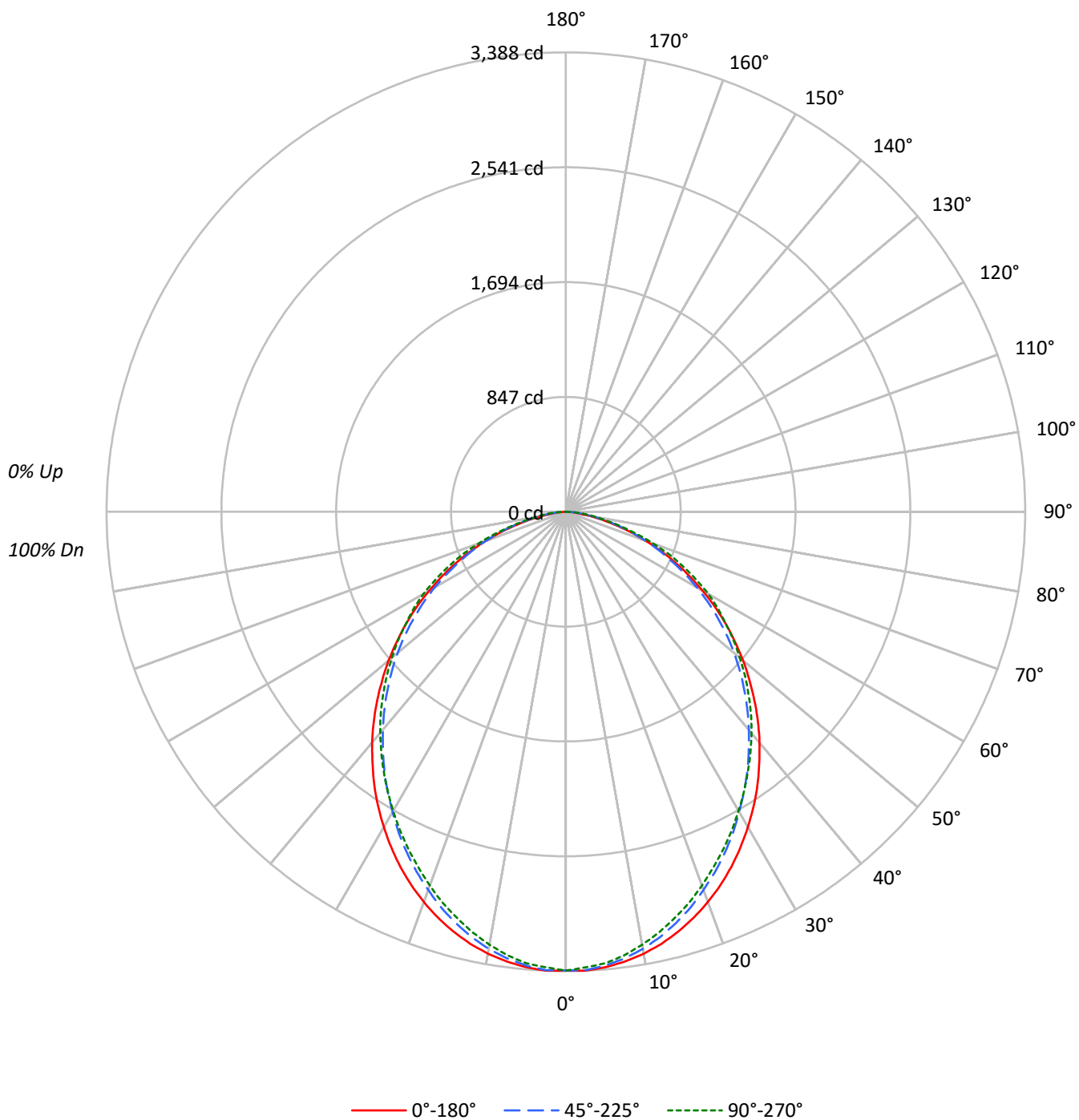
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8097.0 lumens  
Efficiency: N/A  
Efficacy: 78.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 102.6  
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  | 30  | 10  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 110 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 99  | 96  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |    |    |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 78  | 84  | 79  | 76  | 81  | 77  | 74  | 72  |    |    |
| 3   | 92  | 82  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 65  | 72  | 67  | 63  | 61  |    |    |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 56  | 66  | 61  | 56  | 64  | 59  | 55  | 53  |    |    |
| 5   | 78  | 65  | 56  | 50  | 75  | 64  | 56  | 50  | 62  | 55  | 49  | 60  | 54  | 49  | 58  | 53  | 48  | 46  |    |    |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 43  | 54  | 48  | 43  | 53  | 47  | 43  | 41  |    |    |
| 7   | 67  | 53  | 45  | 39  | 65  | 53  | 45  | 39  | 51  | 44  | 39  | 50  | 43  | 38  | 48  | 42  | 38  | 36  |    |    |
| 8   | 62  | 49  | 41  | 35  | 61  | 48  | 40  | 35  | 47  | 40  | 35  | 46  | 39  | 34  | 45  | 39  | 34  | 32  |    |    |
| 9   | 58  | 45  | 37  | 32  | 57  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 31  | 29  |    |    |
| 10  | 55  | 42  | 34  | 29  | 53  | 41  | 34  | 29  | 40  | 33  | 29  | 39  | 33  | 28  | 38  | 32  | 28  | 27  |    |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4553 | 4553 | 4553 |
| 5°  | 4554 | 4537 | 4515 |
| 10° | 4521 | 4472 | 4430 |
| 15° | 4464 | 4372 | 4320 |
| 20° | 4386 | 4250 | 4200 |
| 25° | 4289 | 4119 | 4077 |
| 30° | 4172 | 3972 | 3957 |
| 35° | 4047 | 3833 | 3846 |
| 40° | 3903 | 3687 | 3742 |
| 45° | 3743 | 3543 | 3626 |
| 50° | 3572 | 3390 | 3506 |
| 55° | 3375 | 3210 | 3379 |
| 60° | 3131 | 3004 | 3267 |
| 65° | 2850 | 2737 | 3037 |
| 70° | 2473 | 2461 | 2707 |
| 75° | 1973 | 2095 | 2223 |
| 80° | 1365 | 1618 | 1764 |
| 85° | 763  | 1233 | 1606 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3743 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 317.6  | 3.9       |
| 10°-20°   | 885.4  | 10.9      |
| 20°-30°   | 1286.2 | 15.9      |
| 30°-40°   | 1480.2 | 18.3      |
| 40°-50°   | 1465.1 | 18.1      |
| 50°-60°   | 1254.4 | 15.5      |
| 60°-70°   | 884.7  | 10.9      |
| 70°-80°   | 429.9  | 5.3       |
| 80°-90°   | 93.6   | 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°    | 2489.2 | 30.7      |
| 0°-40°    | 3969.4 | 49.0      |
| 0°-60°    | 6688.9 | 82.6      |
| 0°-90°    | 8097.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 8097.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3384 | 3384  | 3384 | 3384  | 3384 |      |
| 5°  | 3372 | 3369  | 3359 | 3335  | 3343 | 320  |
| 15° | 3205 | 3187  | 3139 | 3097  | 3101 | 903  |
| 25° | 2889 | 2847  | 2774 | 2739  | 2746 | 1329 |
| 35° | 2464 | 2406  | 2334 | 2325  | 2341 | 1539 |
| 45° | 1967 | 1914  | 1862 | 1885  | 1906 | 1517 |
| 55° | 1439 | 1390  | 1368 | 1409  | 1441 | 1284 |
| 65° | 895  | 857   | 860  | 925   | 954  | 886  |
| 75° | 380  | 363   | 403  | 427   | 428  | 410  |
| 85° | 49   | 60    | 80   | 97    | 104  | 70   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3383.6 | 3383.6 | 3383.6 | 3383.6 | 3383.6 |
| 2.5°  | 3387.5 | 3390.3 | 3383.6 | 3358.2 | 3362.7 |
| 5°    | 3371.9 | 3369.1 | 3359.0 | 3335.3 | 3342.7 |
| 7.5°  | 3345.0 | 3340.4 | 3322.2 | 3294.1 | 3299.1 |
| 10°   | 3309.3 | 3300.0 | 3273.1 | 3237.9 | 3242.1 |
| 12.5° | 3263.0 | 3250.6 | 3212.6 | 3172.8 | 3177.2 |
| 15°   | 3205.0 | 3187.1 | 3138.9 | 3097.0 | 3101.4 |
| 17.5° | 3138.4 | 3118.1 | 3059.7 | 3014.2 | 3023.8 |
| 20°   | 3063.2 | 3035.5 | 2968.4 | 2925.2 | 2933.5 |
| 22.5° | 2980.2 | 2945.5 | 2874.9 | 2833.4 | 2839.9 |
| 25°   | 2888.7 | 2846.6 | 2774.3 | 2738.7 | 2746.5 |
| 27.5° | 2790.1 | 2743.9 | 2669.4 | 2637.0 | 2648.9 |
| 30°   | 2685.1 | 2635.1 | 2556.4 | 2534.0 | 2547.0 |
| 32.5° | 2577.1 | 2524.1 | 2446.4 | 2432.1 | 2445.1 |
| 35°   | 2463.7 | 2405.9 | 2333.5 | 2324.9 | 2341.2 |
| 37.5° | 2342.3 | 2286.8 | 2215.4 | 2220.9 | 2236.2 |
| 40°   | 2222.3 | 2164.7 | 2099.4 | 2111.7 | 2130.2 |
| 42.5° | 2097.3 | 2041.8 | 1982.1 | 1999.4 | 2020.9 |
| 45°   | 1967.1 | 1914.1 | 1862.1 | 1885.0 | 1905.6 |
| 47.5° | 1836.4 | 1784.0 | 1741.7 | 1768.5 | 1792.9 |
| 50°   | 1706.7 | 1656.4 | 1619.3 | 1651.8 | 1674.9 |
| 52.5° | 1570.6 | 1522.6 | 1496.1 | 1530.3 | 1559.9 |
| 55°   | 1438.6 | 1389.8 | 1368.4 | 1409.3 | 1440.6 |
| 57.5° | 1302.2 | 1262.2 | 1243.8 | 1291.8 | 1330.9 |
| 60°   | 1163.7 | 1124.2 | 1116.4 | 1177.0 | 1214.1 |
| 62.5° | 1028.4 | 989.7  | 986.2  | 1057.2 | 1083.8 |
| 65°   | 895.1  | 856.9  | 859.8  | 925.4  | 954.0  |
| 67.5° | 763.1  | 728.0  | 744.1  | 807.0  | 826.2  |
| 70°   | 628.6  | 597.4  | 625.6  | 678.7  | 688.1  |
| 72.5° | 502.3  | 476.0  | 514.3  | 551.4  | 553.7  |
| 75°   | 379.6  | 363.4  | 402.9  | 427.4  | 427.6  |
| 77.5° | 271.7  | 263.2  | 299.7  | 316.3  | 317.4  |
| 80°   | 176.2  | 180.1  | 208.8  | 221.9  | 227.6  |
| 82.5° | 102.7  | 111.7  | 134.3  | 156.4  | 162.4  |
| 85°   | 49.4   | 60.3   | 79.9   | 97.0   | 104.0  |
| 87.5° | 17.1   | 24.3   | 33.3   | 36.9   | 35.9   |
| 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 | 16.06            | 17.65 | 16.43 | 17.96 | 18.28 | 16.23          | 17.82 | 16.60 | 18.13 | 18.45 |
|                 | 3H   | 17.51            | 18.94 | 17.89 | 19.26 | 19.63 | 17.88          | 19.30 | 18.26 | 19.63 | 19.99 |
|                 | 4H   | 17.94            | 19.28 | 18.34 | 19.63 | 20.00 | 18.38          | 19.72 | 18.78 | 20.07 | 20.44 |
|                 | 6H   | 18.16            | 19.40 | 18.57 | 19.76 | 20.16 | 18.68          | 19.91 | 19.09 | 20.28 | 20.67 |
|                 | 8H   | 18.20            | 19.38 | 18.62 | 19.77 | 20.17 | 18.76          | 19.94 | 19.19 | 20.33 | 20.73 |
|                 | 12H  | 18.20            | 19.33 | 18.63 | 19.71 | 20.14 | 18.82          | 19.95 | 19.25 | 20.34 | 20.77 |
| 4H              | 2H   | 16.58            | 17.92 | 16.98 | 18.27 | 18.64 | 16.72          | 18.06 | 17.12 | 18.40 | 18.78 |
|                 | 3H   | 18.21            | 19.33 | 18.62 | 19.73 | 20.13 | 18.57          | 19.68 | 18.98 | 20.08 | 20.48 |
|                 | 4H   | 18.73            | 19.73 | 19.16 | 20.15 | 20.58 | 19.18          | 20.19 | 19.61 | 20.60 | 21.04 |
|                 | 6H   | 19.03            | 19.90 | 19.48 | 20.34 | 20.80 | 19.58          | 20.45 | 20.04 | 20.90 | 21.35 |
|                 | 8H   | 19.08            | 19.90 | 19.54 | 20.34 | 20.81 | 19.70          | 20.52 | 20.16 | 20.96 | 21.43 |
|                 | 12H  | 19.11            | 19.84 | 19.59 | 20.31 | 20.78 | 19.80          | 20.53 | 20.28 | 21.01 | 21.48 |
| 8H              | 4H   | 18.95            | 19.77 | 19.41 | 20.21 | 20.68 | 19.36          | 20.18 | 19.82 | 20.62 | 21.09 |
|                 | 6H   | 19.32            | 19.99 | 19.81 | 20.48 | 20.96 | 19.84          | 20.52 | 20.34 | 21.01 | 21.48 |
|                 | 8H   | 19.41            | 20.01 | 19.92 | 20.52 | 21.01 | 20.02          | 20.62 | 20.53 | 21.13 | 21.62 |
|                 | 12H  | 19.46            | 19.99 | 19.97 | 20.49 | 21.05 | 20.17          | 20.71 | 20.68 | 21.20 | 21.76 |
| 12H             | 4H   | 18.96            | 19.69 | 19.44 | 20.17 | 20.64 | 19.36          | 20.09 | 19.84 | 20.57 | 21.04 |
|                 | 6H   | 19.34            | 19.95 | 19.85 | 20.45 | 20.94 | 19.85          | 20.45 | 20.36 | 20.96 | 21.45 |
|                 | 8H   | 19.47            | 20.00 | 19.98 | 20.49 | 21.06 | 20.07          | 20.60 | 20.58 | 21.09 | 21.66 |

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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