

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: P1499192

Luminaire Tested: MAE-G-4-120-2HI-40-WDDCPH

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1499192  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: MAE-G-4-120-2HI-40-WDDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient illumination levels  
Light Source: -  
Ballast/Driver: -

**Summary**

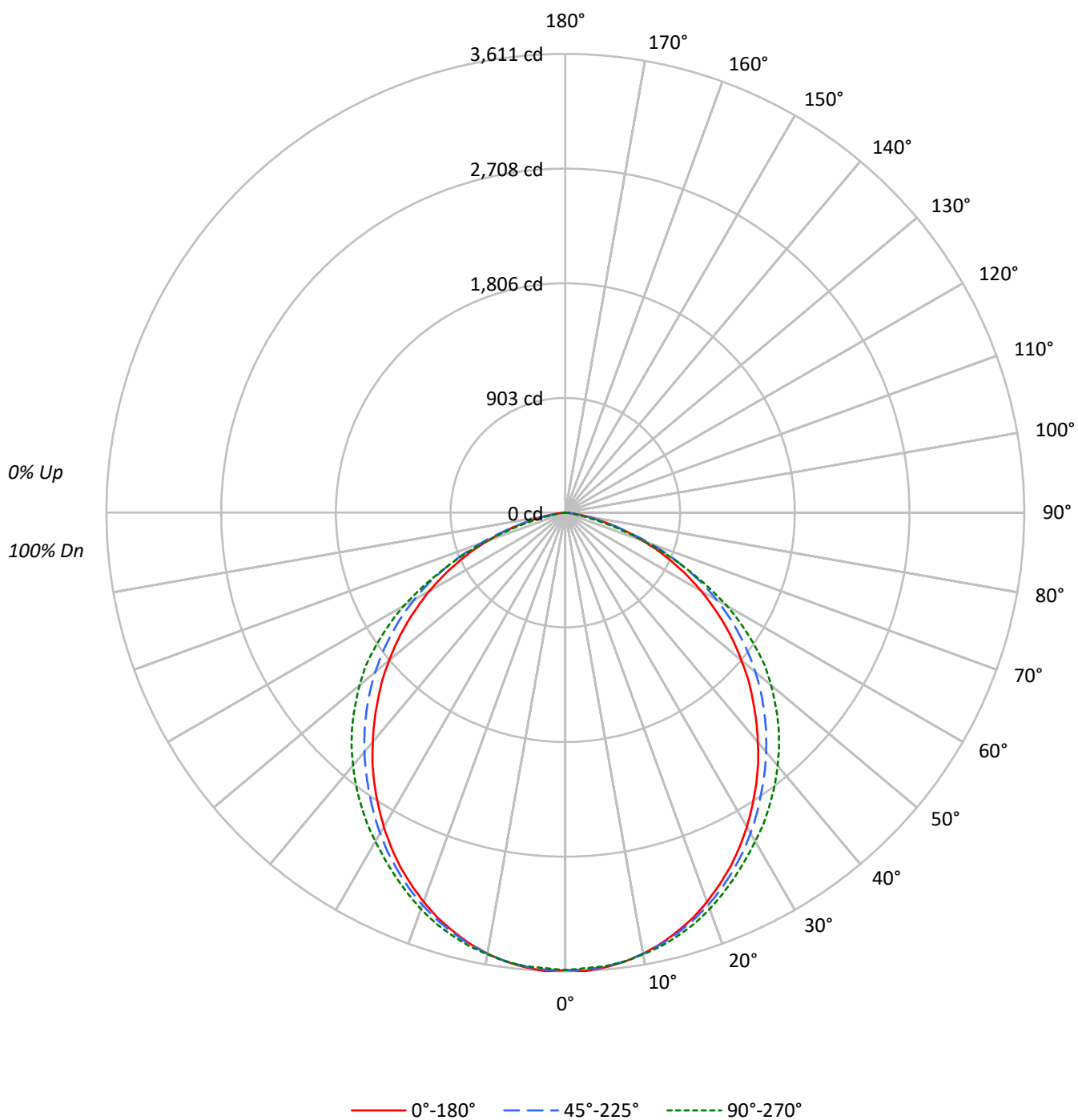
Lumens per Lamp: N/A  
Luminaire Lumens: 9090.0 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 88.6  
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  |
| 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 | 97  | 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  | 58  | 69  | 62  | 57  |  | 67  | 61  | 56  |  | 65  |
| 5   | 78  | 65  | 57  | 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  | 45  | 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  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  |  | 39  | 33  | 28  |  | 38  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4845 | 4845 | 4845 |
| 5°  | 4854 | 4846 | 4841 |
| 10° | 4816 | 4816 | 4823 |
| 15° | 4752 | 4769 | 4798 |
| 20° | 4668 | 4706 | 4755 |
| 25° | 4564 | 4624 | 4693 |
| 30° | 4438 | 4529 | 4643 |
| 35° | 4298 | 4419 | 4607 |
| 40° | 4139 | 4319 | 4564 |
| 45° | 3970 | 4211 | 4514 |
| 50° | 3786 | 4085 | 4423 |
| 55° | 3577 | 3921 | 4257 |
| 60° | 3324 | 3702 | 3952 |
| 65° | 2998 | 3364 | 3383 |
| 70° | 2559 | 2799 | 2616 |
| 75° | 2009 | 2027 | 1634 |
| 80° | 1306 | 1043 | 626  |
| 85° | 605  | 397  | 321  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4514 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 340.1  | 3.7       |
| 10°-20°   | 964.6  | 10.6      |
| 20°-30°   | 1433.0 | 15.8      |
| 30°-40°   | 1687.9 | 18.6      |
| 40°-50°   | 1710.0 | 18.8      |
| 50°-60°   | 1488.4 | 16.4      |
| 60°-70°   | 1014.2 | 11.2      |
| 70°-80°   | 405.4  | 4.5       |
| 80°-90°   | 46.4   | 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°    | 2737.7 | 30.1      |
| 0°-40°    | 4425.6 | 48.7      |
| 0°-60°    | 7624.0 | 83.9      |
| 0°-90°    | 9090.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 9090.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3601 | 3601  | 3601 | 3601  | 3601 |      |
| 5°  | 3594 | 3573  | 3588 | 3583  | 3584 | 341  |
| 15° | 3412 | 3397  | 3424 | 3436  | 3444 | 962  |
| 25° | 3074 | 3075  | 3114 | 3140  | 3161 | 1414 |
| 35° | 2617 | 2629  | 2690 | 2761  | 2805 | 1636 |
| 45° | 2086 | 2112  | 2213 | 2317  | 2372 | 1610 |
| 55° | 1525 | 1558  | 1672 | 1777  | 1815 | 1362 |
| 65° | 942  | 986   | 1056 | 1058  | 1063 | 933  |
| 75° | 386  | 410   | 390  | 335   | 314  | 416  |
| 85° | 39   | 35    | 26   | 23    | 21   | 62   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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CATALOG NUMBER: MAE-G-4-120-2HI-40-WDDCPH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3601.0 | 3601.0 | 3601.0 | 3601.0 | 3601.0 |
| 2.5°  | 3611.0 | 3587.8 | 3601.0 | 3598.6 | 3588.8 |
| 5°    | 3593.7 | 3572.9 | 3587.8 | 3582.9 | 3584.0 |
| 7.5°  | 3565.6 | 3546.1 | 3562.1 | 3560.7 | 3564.5 |
| 10°   | 3525.3 | 3505.9 | 3525.3 | 3526.4 | 3530.2 |
| 12.5° | 3475.1 | 3458.0 | 3481.3 | 3486.1 | 3494.8 |
| 15°   | 3411.5 | 3396.9 | 3423.7 | 3436.1 | 3444.5 |
| 17.5° | 3343.2 | 3333.4 | 3360.2 | 3376.1 | 3389.7 |
| 20°   | 3259.9 | 3255.1 | 3287.0 | 3302.6 | 3321.0 |
| 22.5° | 3169.4 | 3167.0 | 3205.1 | 3224.5 | 3242.9 |
| 25°   | 3074.0 | 3075.3 | 3114.5 | 3140.2 | 3161.0 |
| 27.5° | 2968.8 | 2971.3 | 3019.1 | 3049.7 | 3075.3 |
| 30°   | 2856.4 | 2862.6 | 2915.1 | 2956.7 | 2988.6 |
| 32.5° | 2737.8 | 2748.9 | 2805.1 | 2862.6 | 2902.9 |
| 35°   | 2616.7 | 2629.1 | 2690.2 | 2761.0 | 2805.1 |
| 37.5° | 2492.1 | 2505.6 | 2576.4 | 2659.7 | 2706.2 |
| 40°   | 2356.4 | 2377.0 | 2459.1 | 2550.8 | 2598.3 |
| 42.5° | 2222.9 | 2246.2 | 2338.1 | 2438.3 | 2489.7 |
| 45°   | 2086.2 | 2111.8 | 2213.2 | 2317.2 | 2372.1 |
| 47.5° | 1954.0 | 1975.9 | 2084.8 | 2193.7 | 2242.7 |
| 50°   | 1808.6 | 1837.8 | 1951.6 | 2060.5 | 2112.9 |
| 52.5° | 1669.2 | 1697.3 | 1813.5 | 1924.5 | 1978.6 |
| 55°   | 1524.8 | 1557.8 | 1671.6 | 1776.7 | 1814.6 |
| 57.5° | 1379.4 | 1417.3 | 1527.3 | 1614.0 | 1647.0 |
| 60°   | 1235.1 | 1272.9 | 1375.6 | 1444.0 | 1468.6 |
| 62.5° | 1089.4 | 1128.6 | 1219.2 | 1260.8 | 1265.6 |
| 65°   | 941.6  | 985.7  | 1056.5 | 1057.8 | 1062.7 |
| 67.5° | 801.1  | 837.5  | 888.9  | 874.3  | 867.0  |
| 70°   | 650.5  | 690.8  | 711.6  | 682.4  | 665.1  |
| 72.5° | 517.3  | 546.5  | 543.0  | 500.0  | 479.4  |
| 75°   | 386.5  | 409.7  | 390.0  | 335.1  | 314.3  |
| 77.5° | 267.8  | 287.3  | 248.1  | 196.8  | 176.2  |
| 80°   | 168.6  | 177.3  | 134.6  | 95.4   | 80.8   |
| 82.5° | 90.5   | 89.2   | 57.6   | 47.6   | 44.1   |
| 85°   | 39.2   | 35.4   | 25.7   | 23.2   | 20.8   |
| 87.5° | 13.5   | 12.2   | 9.7    | 8.6    | 7.3    |
| 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 | 16.40            | 17.98 | 16.76 | 18.29 | 18.61 | 17.36          | 18.94 | 17.72 | 19.26 | 19.57 |
|                 | 3H   | 17.82            | 19.24 | 18.20 | 19.57 | 19.93 | 18.55          | 19.97 | 18.93 | 20.30 | 20.66 |
|                 | 4H   | 18.21            | 19.55 | 18.61 | 19.89 | 20.27 | 18.76          | 20.10 | 19.16 | 20.44 | 20.82 |
|                 | 6H   | 18.39            | 19.62 | 18.80 | 19.98 | 20.37 | 18.78          | 20.01 | 19.19 | 20.38 | 20.77 |
|                 | 8H   | 18.40            | 19.57 | 18.83 | 19.96 | 20.36 | 18.76          | 19.93 | 19.18 | 20.32 | 20.72 |
|                 | 12H  | 18.39            | 19.51 | 18.82 | 19.89 | 20.32 | 18.73          | 19.86 | 19.16 | 20.24 | 20.67 |
| 4H              | 2H   | 17.06            | 18.39 | 17.46 | 18.74 | 19.12 | 17.83          | 19.17 | 18.23 | 19.51 | 19.89 |
|                 | 3H   | 18.64            | 19.74 | 19.05 | 20.14 | 20.54 | 19.18          | 20.29 | 19.59 | 20.69 | 21.09 |
|                 | 4H   | 19.11            | 20.10 | 19.54 | 20.52 | 20.96 | 19.45          | 20.44 | 19.88 | 20.86 | 21.30 |
|                 | 6H   | 19.35            | 20.21 | 19.81 | 20.66 | 21.11 | 19.50          | 20.36 | 19.96 | 20.81 | 21.26 |
|                 | 8H   | 19.38            | 20.18 | 19.84 | 20.62 | 21.09 | 19.48          | 20.28 | 19.94 | 20.72 | 21.19 |
|                 | 12H  | 19.37            | 20.09 | 19.86 | 20.57 | 21.04 | 19.46          | 20.17 | 19.94 | 20.65 | 21.12 |
| 8H              | 4H   | 19.25            | 20.05 | 19.71 | 20.50 | 20.96 | 19.57          | 20.37 | 20.03 | 20.81 | 21.28 |
|                 | 6H   | 19.53            | 20.19 | 20.02 | 20.68 | 21.15 | 19.63          | 20.29 | 20.12 | 20.78 | 21.25 |
|                 | 8H   | 19.56            | 20.15 | 20.08 | 20.66 | 21.15 | 19.60          | 20.19 | 20.11 | 20.70 | 21.19 |
|                 | 12H  | 19.58            | 20.10 | 20.09 | 20.59 | 21.15 | 19.59          | 20.11 | 20.10 | 20.60 | 21.16 |
| 12H             | 4H   | 19.23            | 19.95 | 19.71 | 20.43 | 20.90 | 19.55          | 20.27 | 20.04 | 20.75 | 21.22 |
|                 | 6H   | 19.49            | 20.09 | 20.01 | 20.60 | 21.08 | 19.60          | 20.19 | 20.11 | 20.70 | 21.19 |
|                 | 8H   | 19.56            | 20.08 | 20.07 | 20.57 | 21.13 | 19.60          | 20.12 | 20.11 | 20.61 | 21.18 |

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

7 of 7