

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: P1499264

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

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1499264  
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-STD-40-WDDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient , STD exam illumination levels  
Light Source: -  
Ballast/Driver: -

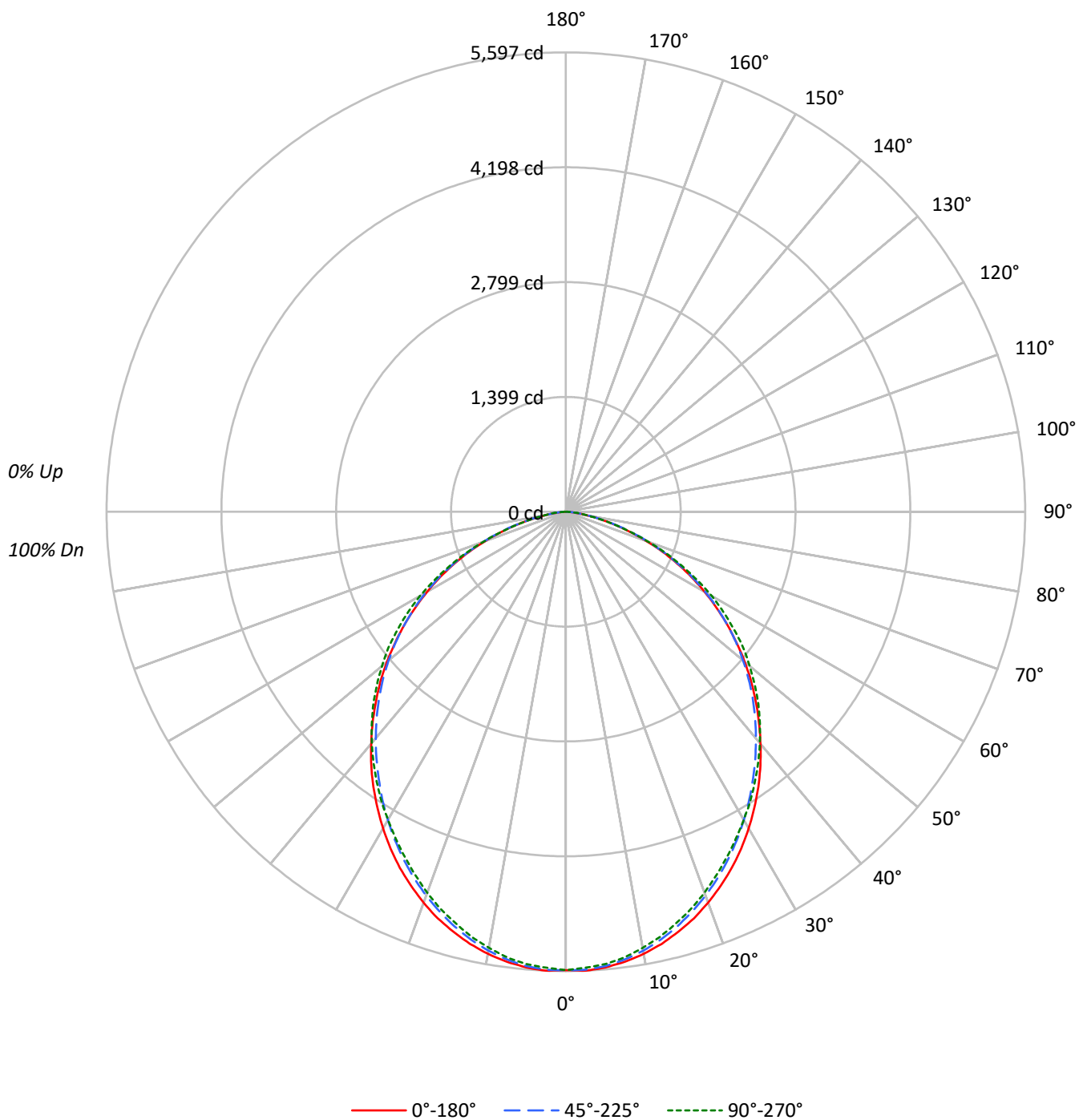
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13654.0 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 157.1  
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  | 45  | 39  | 51  | 44  | 38  |  | 50  | 43  | 38  |  | 48  |
| 8   | 62  | 49  | 41  | 35  | 61  | 48  | 40  | 35  | 47  | 40  | 35  |  | 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°  | 7514 | 7514 | 7514 |
| 5°  | 7526 | 7503 | 7472 |
| 10° | 7472 | 7419 | 7371 |
| 15° | 7379 | 7288 | 7231 |
| 20° | 7258 | 7125 | 7071 |
| 25° | 7104 | 6941 | 6892 |
| 30° | 6921 | 6740 | 6734 |
| 35° | 6716 | 6528 | 6598 |
| 40° | 6481 | 6329 | 6458 |
| 45° | 6229 | 6125 | 6311 |
| 50° | 5954 | 5902 | 6119 |
| 55° | 5637 | 5635 | 5870 |
| 60° | 5257 | 5300 | 5522 |
| 65° | 4776 | 4845 | 4968 |
| 70° | 4118 | 4205 | 4223 |
| 75° | 3276 | 3363 | 3255 |
| 80° | 2208 | 2269 | 2197 |
| 85° | 1122 | 1460 | 1829 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6311 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 525.5   | 3.8       |
| 10°-20°   | 1473.9  | 10.8      |
| 20°-30°   | 2159.2  | 15.8      |
| 30°-40°   | 2509.1  | 18.4      |
| 40°-50°   | 2509.3  | 18.4      |
| 50°-60°   | 2164.4  | 15.9      |
| 60°-70°   | 1505.9  | 11.0      |
| 70°-80°   | 684.0   | 5.0       |
| 80°-90°   | 122.8   | 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°    | 4158.6  | 30.5      |
| 0°-40°    | 6667.7  | 48.8      |
| 0°-60°    | 11341.4 | 83.1      |
| 0°-90°    | 13654.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 13654.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 5585 | 5585  | 5585 | 5585  | 5585 |      |
| 5°  | 5572 | 5550  | 5555 | 5526  | 5532 | 529  |
| 15° | 5298 | 5263  | 5232 | 5186  | 5191 | 1493 |
| 25° | 4785 | 4737  | 4675 | 4633  | 4642 | 2202 |
| 35° | 4089 | 4030  | 3974 | 3986  | 4017 | 2556 |
| 45° | 3274 | 3224  | 3219 | 3277  | 3316 | 2525 |
| 55° | 2403 | 2367  | 2402 | 2473  | 2502 | 2146 |
| 65° | 1500 | 1488  | 1522 | 1545  | 1561 | 1484 |
| 75° | 630  | 628   | 647  | 632   | 626  | 678  |
| 85° | 73   | 80    | 95   | 112   | 118  | 109  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 5584.8 | 5584.8 | 5584.8 | 5584.8 | 5584.8 |
| 2.5°  | 5596.7 | 5576.4 | 5584.8 | 5562.9 | 5559.7 |
| 5°    | 5572.0 | 5550.4 | 5555.0 | 5525.8 | 5532.5 |
| 7.5°  | 5529.1 | 5504.8 | 5502.3 | 5470.1 | 5476.8 |
| 10°   | 5469.2 | 5440.4 | 5430.2 | 5391.2 | 5395.0 |
| 12.5° | 5392.9 | 5361.0 | 5341.3 | 5297.0 | 5303.8 |
| 15°   | 5297.6 | 5262.7 | 5231.7 | 5186.5 | 5191.0 |
| 17.5° | 5193.1 | 5156.2 | 5110.6 | 5063.2 | 5073.9 |
| 20°   | 5068.9 | 5029.6 | 4975.9 | 4926.3 | 4938.3 |
| 22.5° | 4931.7 | 4887.6 | 4832.5 | 4784.0 | 4792.2 |
| 25°   | 4785.3 | 4737.3 | 4675.1 | 4632.7 | 4642.4 |
| 27.5° | 4626.0 | 4572.8 | 4510.8 | 4474.3 | 4488.8 |
| 30°   | 4455.0 | 4399.7 | 4337.9 | 4314.3 | 4334.1 |
| 32.5° | 4274.9 | 4219.2 | 4160.0 | 4154.2 | 4182.3 |
| 35°   | 4088.8 | 4029.5 | 3974.4 | 3985.5 | 4016.7 |
| 37.5° | 3895.3 | 3837.3 | 3790.6 | 3818.2 | 3850.7 |
| 40°   | 3689.9 | 3636.9 | 3603.6 | 3642.3 | 3676.8 |
| 42.5° | 3483.8 | 3433.5 | 3413.7 | 3463.7 | 3501.2 |
| 45°   | 3273.5 | 3223.8 | 3219.1 | 3276.6 | 3316.5 |
| 47.5° | 3065.0 | 3014.3 | 3022.8 | 3087.1 | 3122.9 |
| 50°   | 2844.3 | 2800.9 | 2819.7 | 2887.7 | 2923.4 |
| 52.5° | 2623.1 | 2583.1 | 2612.9 | 2684.8 | 2726.8 |
| 55°   | 2403.2 | 2367.3 | 2402.1 | 2472.7 | 2502.3 |
| 57.5° | 2177.8 | 2151.5 | 2189.7 | 2251.4 | 2279.8 |
| 60°   | 1953.5 | 1929.8 | 1969.4 | 2025.6 | 2052.1 |
| 62.5° | 1726.8 | 1707.3 | 1747.8 | 1792.0 | 1807.1 |
| 65°   | 1500.0 | 1488.1 | 1521.7 | 1545.4 | 1560.6 |
| 67.5° | 1277.6 | 1265.5 | 1297.3 | 1317.3 | 1321.1 |
| 70°   | 1046.8 | 1042.5 | 1068.8 | 1076.9 | 1073.5 |
| 72.5° | 835.5  | 829.3  | 850.1  | 847.2  | 839.5  |
| 75°   | 630.2  | 628.3  | 646.9  | 631.9  | 626.1  |
| 77.5° | 443.6  | 450.2  | 454.6  | 441.5  | 436.8  |
| 80°   | 285.0  | 295.6  | 292.8  | 288.1  | 283.6  |
| 82.5° | 159.4  | 167.4  | 169.3  | 186.2  | 193.0  |
| 85°   | 72.7   | 80.0   | 94.6   | 111.6  | 118.5  |
| 87.5° | 24.6   | 30.7   | 39.5   | 42.1   | 39.8   |
| 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 | 17.93            | 19.52 | 18.30 | 19.83 | 20.14 | 18.25          | 19.83 | 18.61 | 20.15 | 20.46 |
|                 | 3H   | 19.39            | 20.82 | 19.77 | 21.14 | 21.50 | 19.68          | 21.10 | 20.06 | 21.43 | 21.79 |
|                 | 4H   | 19.81            | 21.15 | 20.21 | 21.50 | 21.88 | 20.07          | 21.40 | 20.47 | 21.75 | 22.13 |
|                 | 6H   | 20.02            | 21.25 | 20.43 | 21.62 | 22.01 | 20.24          | 21.48 | 20.66 | 21.85 | 22.24 |
|                 | 8H   | 20.04            | 21.22 | 20.47 | 21.61 | 22.01 | 20.28          | 21.46 | 20.70 | 21.85 | 22.25 |
|                 | 12H  | 20.04            | 21.17 | 20.47 | 21.55 | 21.98 | 20.30          | 21.42 | 20.73 | 21.81 | 22.24 |
| 4H              | 2H   | 18.50            | 19.84 | 18.90 | 20.19 | 20.57 | 18.76          | 20.10 | 19.16 | 20.45 | 20.82 |
|                 | 3H   | 20.14            | 21.25 | 20.55 | 21.65 | 22.05 | 20.37          | 21.48 | 20.78 | 21.88 | 22.28 |
|                 | 4H   | 20.64            | 21.64 | 21.08 | 22.06 | 22.50 | 20.85          | 21.85 | 21.28 | 22.26 | 22.70 |
|                 | 6H   | 20.92            | 21.79 | 21.38 | 22.23 | 22.69 | 21.10          | 21.97 | 21.55 | 22.41 | 22.87 |
|                 | 8H   | 20.96            | 21.78 | 21.43 | 22.22 | 22.69 | 21.15          | 21.96 | 21.61 | 22.41 | 22.87 |
|                 | 12H  | 20.97            | 21.70 | 21.46 | 22.18 | 22.65 | 21.19          | 21.92 | 21.67 | 22.39 | 22.86 |
| 8H              | 4H   | 20.82            | 21.64 | 21.29 | 22.08 | 22.55 | 21.01          | 21.82 | 21.47 | 22.27 | 22.73 |
|                 | 6H   | 21.16            | 21.83 | 21.65 | 22.32 | 22.79 | 21.31          | 21.98 | 21.81 | 22.47 | 22.95 |
|                 | 8H   | 21.22            | 21.82 | 21.74 | 22.33 | 22.82 | 21.40          | 22.00 | 21.91 | 22.51 | 22.99 |
|                 | 12H  | 21.26            | 21.79 | 21.77 | 22.28 | 22.84 | 21.47          | 22.00 | 21.98 | 22.49 | 23.05 |
| 12H             | 4H   | 20.82            | 21.55 | 21.30 | 22.03 | 22.50 | 21.01          | 21.73 | 21.49 | 22.21 | 22.68 |
|                 | 6H   | 21.15            | 21.76 | 21.67 | 22.26 | 22.75 | 21.31          | 21.91 | 21.82 | 22.42 | 22.91 |
|                 | 8H   | 21.25            | 21.78 | 21.76 | 22.27 | 22.84 | 21.43          | 21.96 | 21.93 | 22.45 | 23.01 |