

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: P1499186

Luminaire Tested: MAE-G-4-120-2HI-35-WDDCPH

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1499186  
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-35-WDDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient illumination levels  
Light Source: -  
Ballast/Driver: -

**Summary**

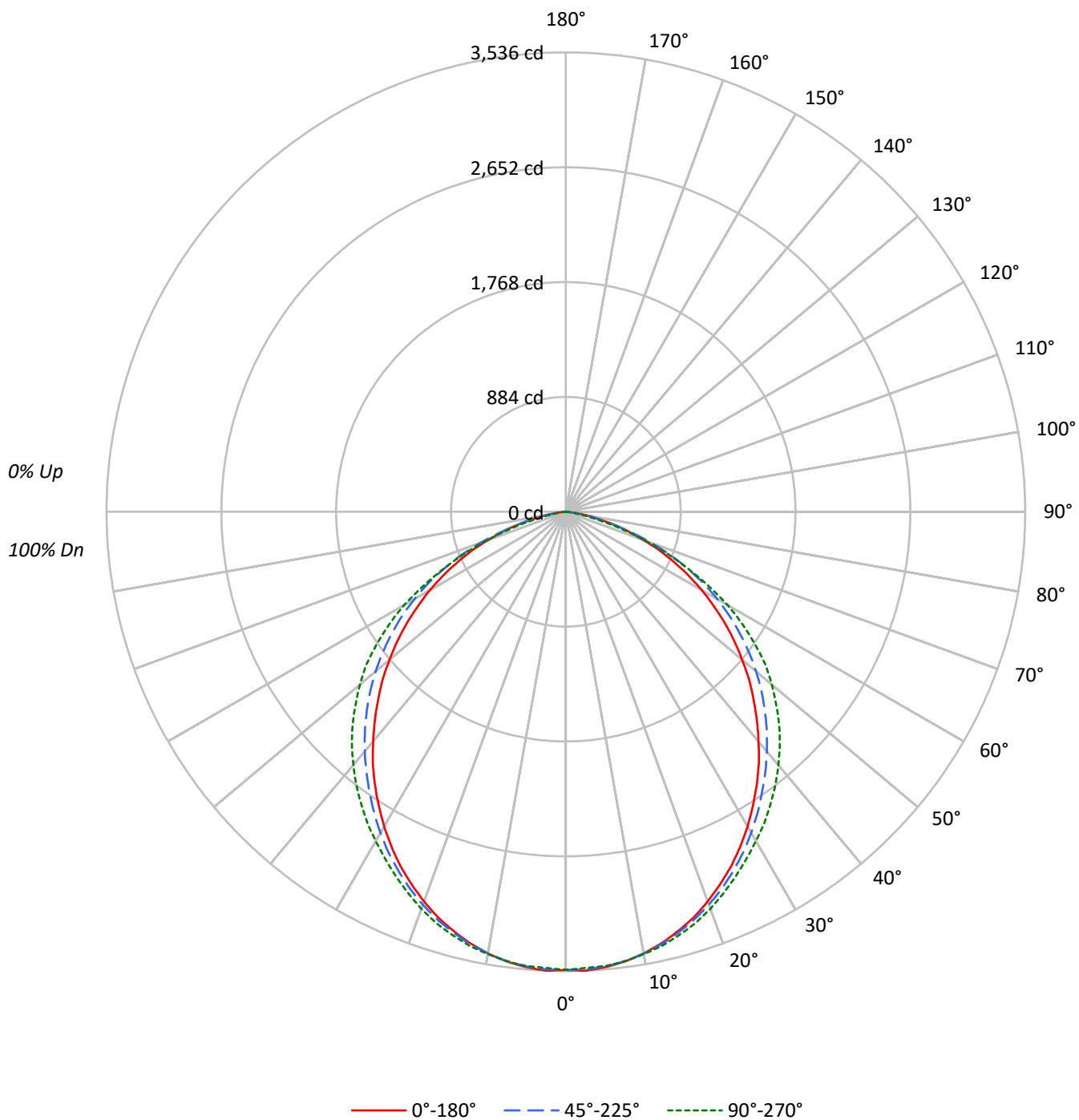
Lumens per Lamp: N/A  
Luminaire Lumens: 8901.0 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°  | 4744 | 4744 | 4744 |
| 5°  | 4753 | 4745 | 4740 |
| 10° | 4716 | 4716 | 4723 |
| 15° | 4653 | 4670 | 4698 |
| 20° | 4571 | 4609 | 4656 |
| 25° | 4469 | 4528 | 4595 |
| 30° | 4346 | 4435 | 4547 |
| 35° | 4209 | 4327 | 4512 |
| 40° | 4053 | 4229 | 4469 |
| 45° | 3887 | 4124 | 4420 |
| 50° | 3707 | 4000 | 4331 |
| 55° | 3502 | 3840 | 4168 |
| 60° | 3254 | 3625 | 3870 |
| 65° | 2935 | 3294 | 3313 |
| 70° | 2506 | 2741 | 2562 |
| 75° | 1967 | 1985 | 1600 |
| 80° | 1279 | 1021 | 613  |
| 85° | 593  | 387  | 315  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4420 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 333.0  | 3.7       |
| 10°-20°   | 944.6  | 10.6      |
| 20°-30°   | 1403.2 | 15.8      |
| 30°-40°   | 1652.8 | 18.6      |
| 40°-50°   | 1674.4 | 18.8      |
| 50°-60°   | 1457.4 | 16.4      |
| 60°-70°   | 993.1  | 11.2      |
| 70°-80°   | 397.0  | 4.5       |
| 80°-90°   | 45.4   | 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°    | 2680.8 | 30.1      |
| 0°-40°    | 4333.6 | 48.7      |
| 0°-60°    | 7465.5 | 83.9      |
| 0°-90°    | 8901.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 8901.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3526 | 3526  | 3526 | 3526  | 3526 |      |
| 5°  | 3519 | 3499  | 3513 | 3508  | 3510 | 334  |
| 15° | 3341 | 3326  | 3352 | 3365  | 3373 | 942  |
| 25° | 3010 | 3011  | 3050 | 3075  | 3095 | 1385 |
| 35° | 2562 | 2574  | 2634 | 2704  | 2747 | 1602 |
| 45° | 2043 | 2068  | 2167 | 2269  | 2323 | 1577 |
| 55° | 1493 | 1525  | 1637 | 1740  | 1777 | 1334 |
| 65° | 922  | 965   | 1034 | 1036  | 1041 | 914  |
| 75° | 378  | 401   | 382  | 328   | 308  | 408  |
| 85° | 38   | 35    | 25   | 23    | 20   | 61   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3526.1 | 3526.1 | 3526.1 | 3526.1 | 3526.1 |
| 2.5°  | 3535.9 | 3513.2 | 3526.1 | 3523.7 | 3514.2 |
| 5°    | 3519.0 | 3498.6 | 3513.2 | 3508.4 | 3509.5 |
| 7.5°  | 3491.5 | 3472.4 | 3488.0 | 3486.7 | 3490.4 |
| 10°   | 3452.0 | 3433.0 | 3452.0 | 3453.1 | 3456.8 |
| 12.5° | 3402.8 | 3386.1 | 3408.9 | 3413.7 | 3422.1 |
| 15°   | 3340.6 | 3326.3 | 3352.5 | 3364.7 | 3372.9 |
| 17.5° | 3273.7 | 3264.1 | 3290.3 | 3305.9 | 3319.2 |
| 20°   | 3192.1 | 3187.4 | 3218.6 | 3234.0 | 3252.0 |
| 22.5° | 3103.5 | 3101.1 | 3138.4 | 3157.5 | 3175.5 |
| 25°   | 3010.1 | 3011.4 | 3049.8 | 3074.9 | 3095.3 |
| 27.5° | 2907.1 | 2909.5 | 2956.3 | 2986.2 | 3011.4 |
| 30°   | 2797.0 | 2803.1 | 2854.5 | 2895.2 | 2926.4 |
| 32.5° | 2680.8 | 2691.7 | 2746.7 | 2803.1 | 2842.5 |
| 35°   | 2562.3 | 2574.5 | 2634.3 | 2703.6 | 2746.7 |
| 37.5° | 2440.3 | 2453.5 | 2522.9 | 2604.4 | 2649.9 |
| 40°   | 2307.4 | 2327.5 | 2408.0 | 2497.7 | 2544.3 |
| 42.5° | 2176.7 | 2199.5 | 2289.4 | 2387.6 | 2437.9 |
| 45°   | 2042.8 | 2067.9 | 2167.2 | 2269.1 | 2322.8 |
| 47.5° | 1913.4 | 1934.8 | 2041.5 | 2148.1 | 2196.0 |
| 50°   | 1771.0 | 1799.6 | 1911.0 | 2017.7 | 2069.0 |
| 52.5° | 1634.4 | 1662.0 | 1775.8 | 1884.5 | 1937.5 |
| 55°   | 1493.1 | 1525.4 | 1636.8 | 1739.8 | 1776.8 |
| 57.5° | 1350.7 | 1387.8 | 1495.5 | 1580.5 | 1612.7 |
| 60°   | 1209.4 | 1246.5 | 1347.0 | 1414.0 | 1438.1 |
| 62.5° | 1066.8 | 1105.2 | 1193.8 | 1234.6 | 1239.3 |
| 65°   | 922.0  | 965.2  | 1034.5 | 1035.8 | 1040.6 |
| 67.5° | 784.4  | 820.1  | 870.4  | 856.1  | 849.0  |
| 70°   | 637.0  | 676.4  | 696.8  | 668.2  | 651.3  |
| 72.5° | 506.5  | 535.1  | 531.7  | 489.6  | 469.5  |
| 75°   | 378.4  | 401.2  | 381.9  | 328.2  | 307.8  |
| 77.5° | 262.3  | 281.3  | 242.9  | 192.7  | 172.5  |
| 80°   | 165.1  | 173.6  | 131.8  | 93.4   | 79.1   |
| 82.5° | 88.7   | 87.3   | 56.4   | 46.6   | 43.1   |
| 85°   | 38.4   | 34.7   | 25.1   | 22.8   | 20.4   |
| 87.5° | 13.2   | 11.9   | 9.5    | 8.5    | 7.1    |
| 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 | 16.33            | 17.91 | 16.69 | 18.22 | 18.54 | 17.29          | 18.87 | 17.65 | 19.18 | 19.50 |
|                 | 3H   | 17.75            | 19.17 | 18.12 | 19.49 | 19.85 | 18.48          | 19.90 | 18.85 | 20.22 | 20.58 |
|                 | 4H   | 18.14            | 19.47 | 18.54 | 19.82 | 20.20 | 18.69          | 20.02 | 19.09 | 20.37 | 20.75 |
|                 | 6H   | 18.31            | 19.54 | 18.73 | 19.91 | 20.30 | 18.71          | 19.94 | 19.12 | 20.31 | 20.70 |
|                 | 8H   | 18.33            | 19.50 | 18.75 | 19.89 | 20.29 | 18.69          | 19.86 | 19.11 | 20.25 | 20.65 |
|                 | 12H  | 18.32            | 19.44 | 18.75 | 19.82 | 20.25 | 18.66          | 19.78 | 19.09 | 20.16 | 20.59 |
| 4H              | 2H   | 16.99            | 18.32 | 17.39 | 18.67 | 19.04 | 17.76          | 19.09 | 18.16 | 19.44 | 19.82 |
|                 | 3H   | 18.56            | 19.67 | 18.97 | 20.07 | 20.47 | 19.11          | 20.21 | 19.52 | 20.61 | 21.01 |
|                 | 4H   | 19.04            | 20.03 | 19.47 | 20.45 | 20.88 | 19.38          | 20.37 | 19.81 | 20.79 | 21.22 |
|                 | 6H   | 19.28            | 20.14 | 19.74 | 20.58 | 21.04 | 19.43          | 20.29 | 19.89 | 20.73 | 21.19 |
|                 | 8H   | 19.30            | 20.11 | 19.77 | 20.55 | 21.02 | 19.40          | 20.21 | 19.87 | 20.65 | 21.12 |
|                 | 12H  | 19.30            | 20.02 | 19.78 | 20.50 | 20.97 | 19.38          | 20.10 | 19.87 | 20.58 | 21.05 |
| 8H              | 4H   | 19.18            | 19.98 | 19.64 | 20.42 | 20.89 | 19.49          | 20.30 | 19.96 | 20.74 | 21.21 |
|                 | 6H   | 19.45            | 20.11 | 19.95 | 20.60 | 21.08 | 19.55          | 20.21 | 20.05 | 20.70 | 21.18 |
|                 | 8H   | 19.49            | 20.08 | 20.00 | 20.59 | 21.08 | 19.53          | 20.12 | 20.04 | 20.63 | 21.12 |
|                 | 12H  | 19.50            | 20.02 | 20.01 | 20.52 | 21.08 | 19.51          | 20.03 | 20.02 | 20.53 | 21.09 |
| 12H             | 4H   | 19.16            | 19.88 | 19.64 | 20.35 | 20.82 | 19.48          | 20.20 | 19.96 | 20.68 | 21.15 |
|                 | 6H   | 19.42            | 20.01 | 19.93 | 20.52 | 21.01 | 19.53          | 20.12 | 20.04 | 20.63 | 21.12 |
|                 | 8H   | 19.49            | 20.01 | 19.99 | 20.50 | 21.06 | 19.53          | 20.05 | 20.04 | 20.54 | 21.11 |