

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: P1498389

Luminaire Tested: MAE-G-2-120-2HI-STD-30

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498389  
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-2-120-2HI-STD-30  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 HI ambient , STD exam illumination levels  
Light Source: -  
Ballast/Driver: -

**Summary**

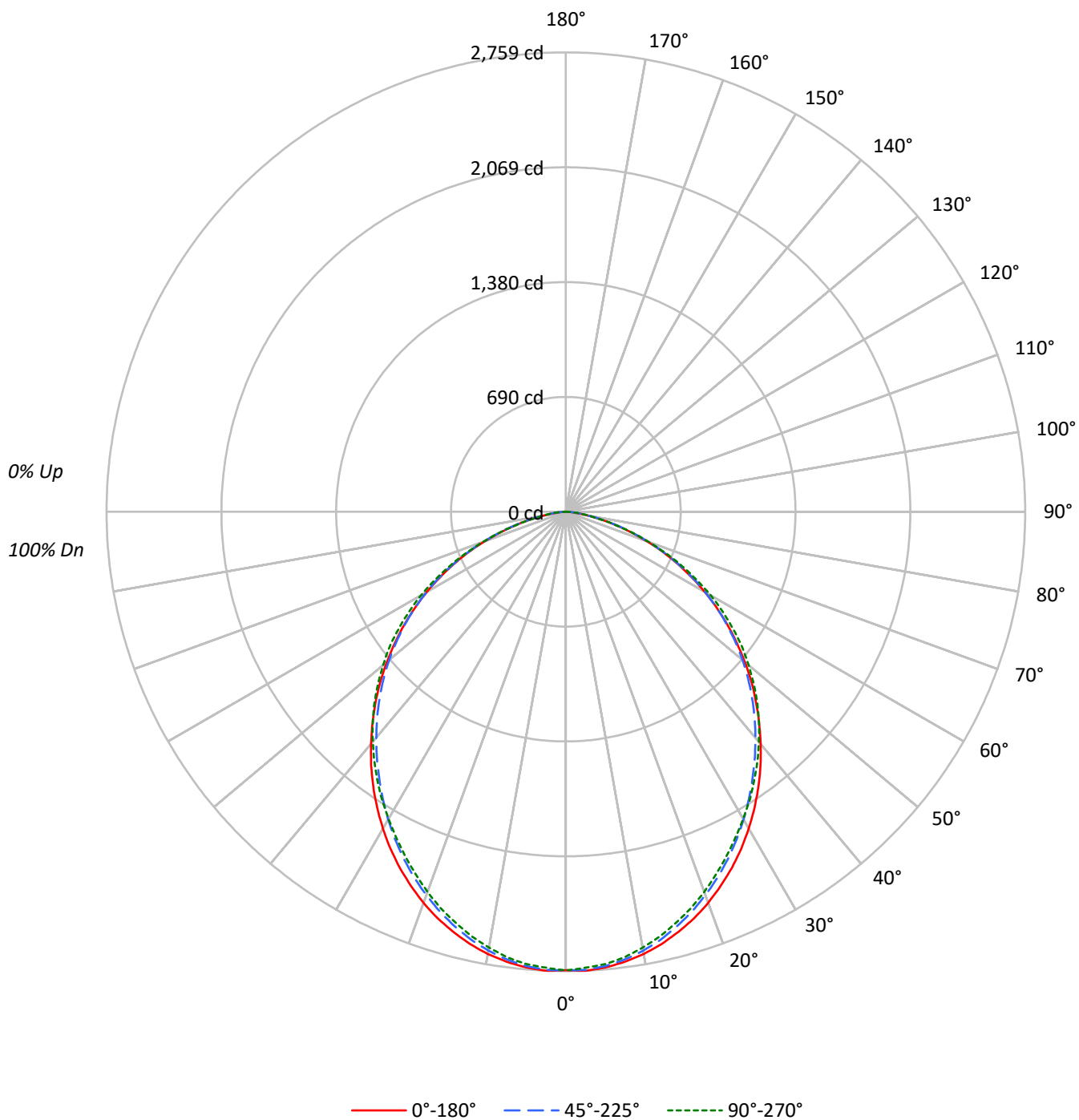
Lumens per Lamp: N/A  
Luminaire Lumens: 6721.0 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 80  
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  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 110 | 105 | 101 | 98  | 107 | 103 | 99  | 96  | 99  | 96  | 93  |  | 95  | 92  | 90  |  | 91  | 89  | 88  | 86  |
| 2   | 100 | 92  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  |  | 84  | 80  | 76  |  | 81  | 77  | 74  | 72  |
| 3   | 92  | 82  | 74  | 68  | 89  | 80  | 73  | 67  | 77  | 71  | 66  |  | 74  | 69  | 65  |  | 72  | 67  | 64  | 61  |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 57  |  | 67  | 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  | 38  |  | 50  | 43  | 38  |  | 48  | 42  | 38  | 36  |
| 8   | 62  | 49  | 41  | 35  | 61  | 48  | 40  | 35  | 47  | 40  | 35  |  | 46  | 39  | 34  |  | 44  | 39  | 34  | 32  |
| 9   | 58  | 45  | 37  | 31  | 57  | 44  | 37  | 31  | 43  | 36  | 31  |  | 42  | 36  | 31  |  | 41  | 35  | 31  | 29  |
| 10  | 54  | 42  | 34  | 29  | 53  | 41  | 34  | 29  | 40  | 33  | 28  |  | 39  | 33  | 28  |  | 38  | 32  | 28  | 26  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7410 | 7410 | 7410 |
| 5°  | 7421 | 7398 | 7367 |
| 10° | 7369 | 7314 | 7263 |
| 15° | 7277 | 7181 | 7120 |
| 20° | 7158 | 7017 | 6958 |
| 25° | 7007 | 6833 | 6777 |
| 30° | 6827 | 6632 | 6617 |
| 35° | 6625 | 6421 | 6478 |
| 40° | 6394 | 6223 | 6337 |
| 45° | 6146 | 6020 | 6188 |
| 50° | 5875 | 5798 | 5997 |
| 55° | 5564 | 5534 | 5751 |
| 60° | 5189 | 5204 | 5415 |
| 65° | 4715 | 4759 | 4885 |
| 70° | 4068 | 4139 | 4173 |
| 75° | 3239 | 3327 | 3246 |
| 80° | 2187 | 2270 | 2228 |
| 85° | 1118 | 1482 | 1871 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6188 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 259.0  | 3.9       |
| 10°-20°   | 726.1  | 10.8      |
| 20°-30°   | 1063.0 | 15.8      |
| 30°-40°   | 1234.4 | 18.4      |
| 40°-50°   | 1233.6 | 18.4      |
| 50°-60°   | 1063.5 | 15.8      |
| 60°-70°   | 740.8  | 11.0      |
| 70°-80°   | 338.6  | 5.0       |
| 80°-90°   | 61.8   | 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°    | 2048.2 | 30.5      |
| 0°-40°    | 3282.6 | 48.8      |
| 0°-60°    | 5579.8 | 83.0      |
| 0°-90°    | 6721.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6721.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2754 | 2754  | 2754 | 2754  | 2754 |      |
| 5°  | 2747 | 2737  | 2739 | 2724  | 2727 | 261  |
| 15° | 2612 | 2595  | 2578 | 2554  | 2556 | 736  |
| 25° | 2360 | 2335  | 2301 | 2278  | 2282 | 1086 |
| 35° | 2017 | 1986  | 1955 | 1958  | 1972 | 1260 |
| 45° | 1615 | 1588  | 1582 | 1608  | 1626 | 1246 |
| 55° | 1186 | 1166  | 1180 | 1212  | 1226 | 1059 |
| 65° | 740  | 733   | 747  | 760   | 767  | 733  |
| 75° | 312  | 310   | 320  | 314   | 312  | 335  |
| 85° | 36   | 40    | 48   | 57    | 61   | 54   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2753.6 | 2753.6 | 2753.6 | 2753.6 | 2753.6 |
| 2.5°  | 2759.4 | 2749.7 | 2753.6 | 2742.4 | 2741.1 |
| 5°    | 2747.2 | 2736.9 | 2738.7 | 2723.7 | 2727.2 |
| 7.5°  | 2726.1 | 2714.3 | 2712.4 | 2695.7 | 2699.0 |
| 10°   | 2696.7 | 2682.4 | 2676.5 | 2656.2 | 2658.0 |
| 12.5° | 2659.1 | 2643.2 | 2632.1 | 2609.0 | 2612.1 |
| 15°   | 2612.2 | 2594.6 | 2577.6 | 2553.6 | 2555.6 |
| 17.5° | 2560.7 | 2541.9 | 2517.2 | 2492.1 | 2497.0 |
| 20°   | 2499.6 | 2479.4 | 2450.3 | 2424.0 | 2429.6 |
| 22.5° | 2432.0 | 2409.2 | 2379.2 | 2353.3 | 2356.8 |
| 25°   | 2359.9 | 2334.9 | 2301.2 | 2278.2 | 2282.4 |
| 27.5° | 2281.5 | 2253.8 | 2219.8 | 2199.6 | 2206.2 |
| 30°   | 2197.2 | 2168.3 | 2134.2 | 2120.4 | 2129.4 |
| 32.5° | 2108.5 | 2079.2 | 2046.3 | 2041.1 | 2054.1 |
| 35°   | 2016.7 | 1985.5 | 1954.6 | 1957.6 | 1972.0 |
| 37.5° | 1921.3 | 1890.8 | 1863.8 | 1874.8 | 1889.9 |
| 40°   | 1820.2 | 1792.0 | 1771.5 | 1787.9 | 1804.0 |
| 42.5° | 1718.6 | 1691.6 | 1677.8 | 1699.9 | 1717.2 |
| 45°   | 1614.9 | 1588.2 | 1581.8 | 1607.6 | 1626.1 |
| 47.5° | 1512.1 | 1485.0 | 1485.2 | 1514.2 | 1530.8 |
| 50°   | 1403.4 | 1379.8 | 1385.0 | 1416.0 | 1432.5 |
| 52.5° | 1294.2 | 1272.3 | 1283.2 | 1316.3 | 1335.9 |
| 55°   | 1185.9 | 1166.0 | 1179.5 | 1212.0 | 1225.9 |
| 57.5° | 1074.7 | 1059.7 | 1075.2 | 1103.7 | 1117.1 |
| 60°   | 964.2  | 950.4  | 966.9  | 993.4  | 1006.1 |
| 62.5° | 852.4  | 840.7  | 858.1  | 879.5  | 887.1  |
| 65°   | 740.5  | 732.7  | 747.4  | 759.6  | 767.2  |
| 67.5° | 630.8  | 623.2  | 637.7  | 648.6  | 650.8  |
| 70°   | 517.1  | 513.2  | 526.1  | 531.4  | 530.4  |
| 72.5° | 412.8  | 408.4  | 419.3  | 419.5  | 416.4  |
| 75°   | 311.5  | 309.6  | 320.0  | 314.4  | 312.2  |
| 77.5° | 219.4  | 222.1  | 225.9  | 221.1  | 219.4  |
| 80°   | 141.1  | 146.3  | 146.5  | 145.6  | 143.8  |
| 82.5° | 79.1   | 83.2   | 85.5   | 94.6   | 98.3   |
| 85°   | 36.2   | 40.1   | 48.0   | 56.9   | 60.6   |
| 87.5° | 12.3   | 15.4   | 20.2   | 21.5   | 20.3   |
| 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 | 17.88            | 19.47 | 18.25 | 19.78 | 20.10 | 18.17          | 19.75 | 18.53 | 20.06 | 20.38 |
|                 | 3H   | 19.35            | 20.77 | 19.72 | 21.10 | 21.46 | 19.61          | 21.03 | 19.99 | 21.36 | 21.72 |
|                 | 4H   | 19.77            | 21.11 | 20.17 | 21.45 | 21.83 | 20.01          | 21.34 | 20.41 | 21.69 | 22.07 |
|                 | 6H   | 19.97            | 21.21 | 20.38 | 21.57 | 21.97 | 20.20          | 21.43 | 20.61 | 21.80 | 22.19 |
|                 | 8H   | 20.00            | 21.18 | 20.42 | 21.57 | 21.97 | 20.24          | 21.41 | 20.66 | 21.80 | 22.20 |
|                 | 12H  | 20.00            | 21.13 | 20.43 | 21.51 | 21.94 | 20.26          | 21.38 | 20.69 | 21.77 | 22.20 |
| 4H              | 2H   | 18.45            | 19.79 | 18.85 | 20.14 | 20.51 | 18.68          | 20.02 | 19.08 | 20.36 | 20.74 |
|                 | 3H   | 20.09            | 21.20 | 20.50 | 21.60 | 22.00 | 20.31          | 21.42 | 20.72 | 21.82 | 22.22 |
|                 | 4H   | 20.60            | 21.60 | 21.03 | 22.01 | 22.45 | 20.79          | 21.79 | 21.23 | 22.21 | 22.65 |
|                 | 6H   | 20.88            | 21.75 | 21.33 | 22.19 | 22.65 | 21.06          | 21.93 | 21.51 | 22.37 | 22.83 |
|                 | 8H   | 20.92            | 21.73 | 21.38 | 22.17 | 22.64 | 21.12          | 21.93 | 21.58 | 22.37 | 22.84 |
|                 | 12H  | 20.93            | 21.66 | 21.41 | 22.13 | 22.60 | 21.16          | 21.89 | 21.64 | 22.36 | 22.83 |
| 8H              | 4H   | 20.78            | 21.59 | 21.24 | 22.04 | 22.50 | 20.96          | 21.77 | 21.42 | 22.22 | 22.68 |
|                 | 6H   | 21.12            | 21.79 | 21.61 | 22.28 | 22.75 | 21.28          | 21.95 | 21.77 | 22.44 | 22.92 |
|                 | 8H   | 21.18            | 21.78 | 21.70 | 22.29 | 22.78 | 21.37          | 21.97 | 21.88 | 22.48 | 22.97 |
|                 | 12H  | 21.22            | 21.75 | 21.73 | 22.24 | 22.80 | 21.45          | 21.98 | 21.96 | 22.47 | 23.03 |
| 12H             | 4H   | 20.78            | 21.50 | 21.26 | 21.98 | 22.45 | 20.96          | 21.68 | 21.44 | 22.16 | 22.63 |
|                 | 6H   | 21.11            | 21.71 | 21.63 | 22.22 | 22.71 | 21.27          | 21.88 | 21.79 | 22.38 | 22.87 |
|                 | 8H   | 21.21            | 21.74 | 21.72 | 22.24 | 22.80 | 21.40          | 21.93 | 21.91 | 22.42 | 22.98 |