

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: P1498122

Luminaire Tested: MAE-G-2-120-1LO-30-90

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498122  
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-2-120-1LO-30-90  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 LO ambient illumination levels  
Light Source: -  
Ballast/Driver: -

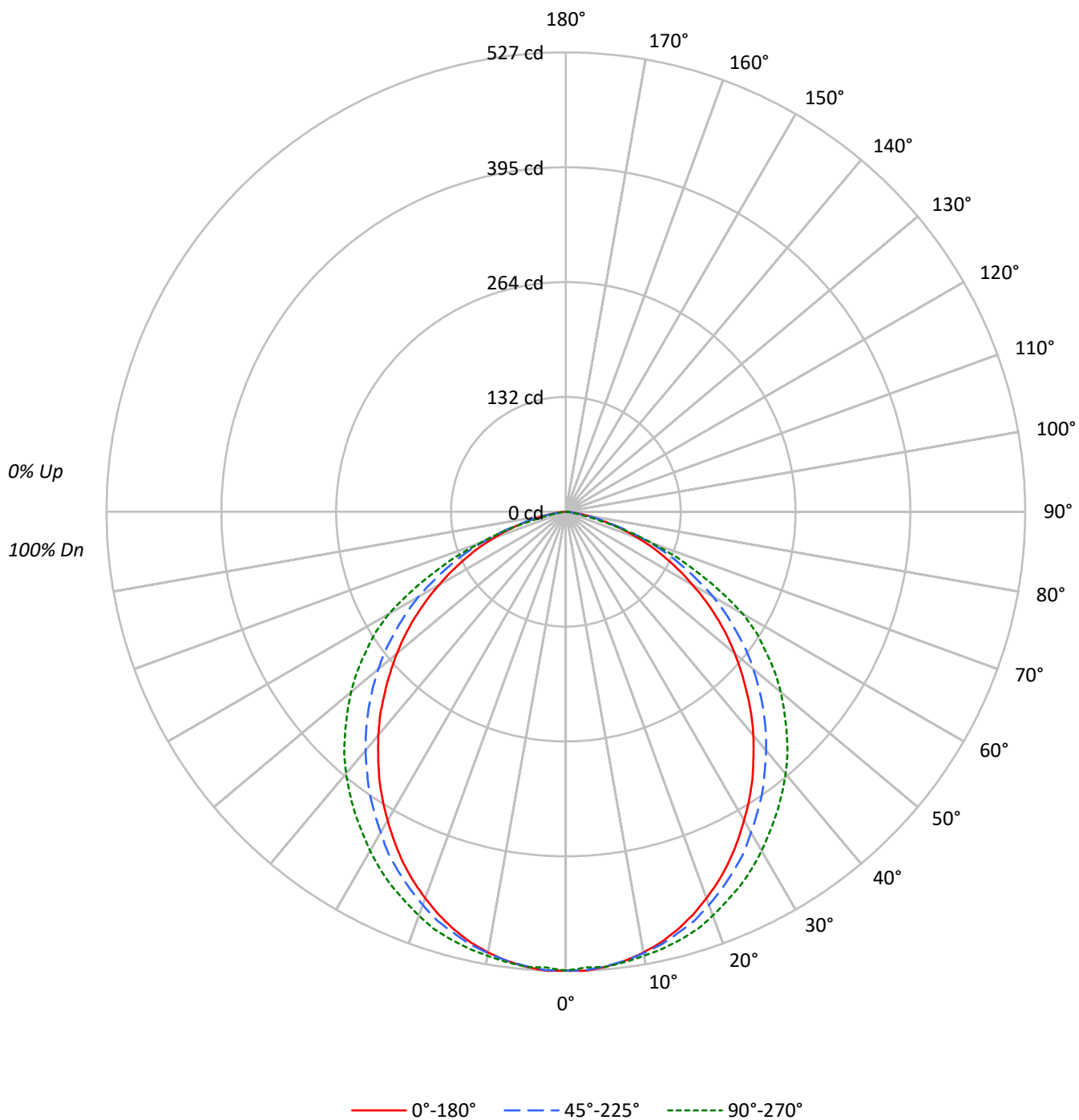
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1325.0 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 12.2  
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

TEST NUMBER: P1498122

CATALOG NUMBER: MAE-G-2-120-1LO-30-90

### Luminous Intensity Polar Plot



TEST NUMBER: P1498122

CATALOG NUMBER: MAE-G-2-120-1LO-30-90

**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 | 106 | 102 | 98  | 107 | 103 | 100 | 97  | 99  | 96  | 94  |  | 95  | 93  | 91  |  | 92  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  |  | 84  | 80  | 77  |  | 81  |
| 3   | 92  | 82  | 74  | 68  | 90  | 80  | 73  | 67  | 77  | 71  | 66  |  | 75  | 70  | 65  |  | 72  |
| 4   | 84  | 73  | 65  | 58  | 82  | 72  | 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  |  | 55  | 48  | 43  |  | 53  |
| 7   | 67  | 54  | 45  | 39  | 65  | 53  | 45  | 39  | 51  | 44  | 39  |  | 50  | 43  | 38  |  | 48  |
| 8   | 62  | 49  | 41  | 35  | 61  | 48  | 40  | 35  | 47  | 40  | 35  |  | 46  | 39  | 34  |  | 45  |
| 9   | 58  | 45  | 37  | 31  | 57  | 44  | 37  | 31  | 43  | 36  | 31  |  | 42  | 36  | 31  |  | 41  |
| 10  | 54  | 41  | 34  | 29  | 53  | 41  | 34  | 28  | 40  | 33  | 28  |  | 39  | 33  | 28  |  | 38  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1416 | 1416 | 1416 |
| 5°  | 1415 | 1414 | 1415 |
| 10° | 1403 | 1405 | 1413 |
| 15° | 1382 | 1392 | 1416 |
| 20° | 1351 | 1375 | 1412 |
| 25° | 1315 | 1351 | 1405 |
| 30° | 1271 | 1320 | 1395 |
| 35° | 1226 | 1291 | 1386 |
| 40° | 1176 | 1255 | 1378 |
| 45° | 1118 | 1219 | 1363 |
| 50° | 1059 | 1176 | 1347 |
| 55° | 991  | 1119 | 1315 |
| 60° | 905  | 1052 | 1264 |
| 65° | 810  | 940  | 1085 |
| 70° | 691  | 792  | 828  |
| 75° | 535  | 575  | 465  |
| 80° | 352  | 305  | 164  |
| 85° | 188  | 139  | 93   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1363 cd/sqm

TEST NUMBER: P1498122

CATALOG NUMBER: MAE-G-2-120-1LO-30-90

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 49.7   | 3.8       |
| 10°-20°   | 141.3  | 10.7      |
| 20°-30°   | 210.0  | 15.9      |
| 30°-40°   | 246.9  | 18.6      |
| 40°-50°   | 249.2  | 18.8      |
| 50°-60°   | 216.4  | 16.3      |
| 60°-70°   | 147.3  | 11.1      |
| 70°-80°   | 57.4   | 4.3       |
| 80°-90°   | 6.9    | 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°    | 401.0  | 30.3      |
| 0°-40°    | 647.9  | 48.9      |
| 0°-60°    | 1113.5 | 84.0      |
| 0°-90°    | 1325.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1325.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 526 | 526   | 526 | 526   | 526 |      |
| 5°  | 524 | 523   | 523 | 523   | 524 | 50   |
| 15° | 496 | 497   | 500 | 505   | 508 | 140  |
| 25° | 443 | 445   | 455 | 466   | 473 | 204  |
| 35° | 373 | 378   | 393 | 411   | 422 | 233  |
| 45° | 294 | 301   | 320 | 345   | 358 | 227  |
| 55° | 211 | 218   | 238 | 266   | 280 | 189  |
| 65° | 127 | 133   | 148 | 164   | 170 | 126  |
| 75° | 52  | 54    | 55  | 50    | 45  | 56   |
| 85° | 6   | 6     | 4   | 4     | 3   | 9    |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

TEST NUMBER: P1498122

CATALOG NUMBER: MAE-G-2-120-1LO-30-90

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 526.3 | 526.3 | 526.3 | 526.3 | 526.3 |
| 2.5°  | 527.1 | 527.1 | 526.3 | 524.0 | 523.3 |
| 5°    | 524.0 | 523.3 | 523.3 | 523.3 | 524.0 |
| 7.5°  | 519.5 | 519.5 | 519.5 | 520.2 | 521.0 |
| 10°   | 513.4 | 513.4 | 514.2 | 515.7 | 517.2 |
| 12.5° | 505.9 | 506.6 | 508.1 | 511.2 | 513.4 |
| 15°   | 496.0 | 496.8 | 499.8 | 505.1 | 508.1 |
| 17.5° | 484.7 | 486.9 | 491.5 | 497.5 | 502.1 |
| 20°   | 471.8 | 474.0 | 480.1 | 487.7 | 493.0 |
| 22.5° | 458.1 | 460.4 | 468.0 | 477.1 | 483.1 |
| 25°   | 443.0 | 445.3 | 455.1 | 466.5 | 473.3 |
| 27.5° | 426.3 | 429.4 | 441.5 | 453.6 | 461.9 |
| 30°   | 408.9 | 412.7 | 424.8 | 440.0 | 449.1 |
| 32.5° | 391.5 | 396.1 | 408.9 | 426.3 | 435.4 |
| 35°   | 373.3 | 377.9 | 393.0 | 411.2 | 421.8 |
| 37.5° | 353.6 | 358.9 | 374.8 | 396.8 | 407.4 |
| 40°   | 334.7 | 340.0 | 357.4 | 380.9 | 392.3 |
| 42.5° | 315.0 | 321.1 | 339.3 | 363.5 | 376.4 |
| 45°   | 293.8 | 301.4 | 320.3 | 345.3 | 358.2 |
| 47.5° | 273.4 | 280.2 | 300.6 | 326.4 | 340.0 |
| 50°   | 252.9 | 260.5 | 280.9 | 307.5 | 321.8 |
| 52.5° | 232.5 | 239.3 | 260.5 | 287.0 | 302.1 |
| 55°   | 211.3 | 218.1 | 238.5 | 265.8 | 280.2 |
| 57.5° | 190.1 | 198.4 | 217.3 | 243.8 | 259.7 |
| 60°   | 168.1 | 175.7 | 195.4 | 221.9 | 234.8 |
| 62.5° | 147.7 | 154.5 | 171.1 | 196.1 | 202.2 |
| 65°   | 127.2 | 133.3 | 147.7 | 163.6 | 170.4 |
| 67.5° | 108.3 | 112.8 | 125.7 | 136.3 | 139.3 |
| 70°   | 87.8  | 92.4  | 100.7 | 106.8 | 105.3 |
| 72.5° | 69.7  | 72.7  | 78.0  | 77.2  | 73.5  |
| 75°   | 51.5  | 54.5  | 55.3  | 50.0  | 44.7  |
| 77.5° | 36.3  | 37.9  | 35.6  | 28.0  | 22.7  |
| 80°   | 22.7  | 23.5  | 19.7  | 12.1  | 10.6  |
| 82.5° | 12.9  | 12.9  | 9.1   | 7.6   | 6.1   |
| 85°   | 6.1   | 6.1   | 4.5   | 3.8   | 3.0   |
| 87.5° | 2.3   | 2.3   | 1.5   | 1.5   | 1.5   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

TEST NUMBER: P1498122

CATALOG NUMBER: MAE-G-2-120-1LO-30-90

**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 | 11.81            | 13.39 | 12.18 | 13.71 | 14.02 | 13.39          | 14.97 | 13.76 | 15.28 | 15.60 |
|                 | 3H   | 13.15            | 14.57 | 13.53 | 14.89 | 15.25 | 14.66          | 16.08 | 15.04 | 16.41 | 16.77 |
|                 | 4H   | 13.52            | 14.85 | 13.92 | 15.19 | 15.57 | 14.86          | 16.19 | 15.26 | 16.53 | 16.91 |
|                 | 6H   | 13.68            | 14.91 | 14.09 | 15.27 | 15.67 | 14.85          | 16.08 | 15.27 | 16.45 | 16.84 |
|                 | 8H   | 13.70            | 14.86 | 14.12 | 15.25 | 15.65 | 14.83          | 16.00 | 15.25 | 16.39 | 16.79 |
|                 | 12H  | 13.69            | 14.81 | 14.12 | 15.19 | 15.62 | 14.80          | 15.92 | 15.23 | 16.30 | 16.73 |
| 4H              | 2H   | 12.48            | 13.81 | 12.88 | 14.16 | 14.53 | 13.77          | 15.10 | 14.17 | 15.45 | 15.82 |
|                 | 3H   | 13.98            | 15.08 | 14.39 | 15.48 | 15.88 | 15.21          | 16.31 | 15.62 | 16.71 | 17.11 |
|                 | 4H   | 14.42            | 15.41 | 14.85 | 15.82 | 16.26 | 15.46          | 16.45 | 15.89 | 16.86 | 17.30 |
|                 | 6H   | 14.64            | 15.50 | 15.10 | 15.94 | 16.40 | 15.49          | 16.35 | 15.94 | 16.79 | 17.25 |
|                 | 8H   | 14.67            | 15.47 | 15.13 | 15.91 | 16.38 | 15.46          | 16.26 | 15.92 | 16.70 | 17.17 |
|                 | 12H  | 14.67            | 15.39 | 15.15 | 15.86 | 16.33 | 15.44          | 16.15 | 15.92 | 16.63 | 17.10 |
| 8H              | 4H   | 14.58            | 15.38 | 15.04 | 15.82 | 16.29 | 15.54          | 16.35 | 16.01 | 16.79 | 17.26 |
|                 | 6H   | 14.84            | 15.49 | 15.33 | 15.98 | 16.46 | 15.58          | 16.24 | 16.07 | 16.73 | 17.20 |
|                 | 8H   | 14.88            | 15.47 | 15.39 | 15.98 | 16.46 | 15.55          | 16.14 | 16.06 | 16.65 | 17.14 |
|                 | 12H  | 14.90            | 15.42 | 15.41 | 15.91 | 16.47 | 15.54          | 16.06 | 16.05 | 16.55 | 17.11 |
| 12H             | 4H   | 14.56            | 15.27 | 15.04 | 15.75 | 16.22 | 15.53          | 16.25 | 16.01 | 16.72 | 17.19 |
|                 | 6H   | 14.81            | 15.40 | 15.32 | 15.91 | 16.39 | 15.55          | 16.14 | 16.06 | 16.65 | 17.14 |
|                 | 8H   | 14.88            | 15.39 | 15.38 | 15.89 | 16.45 | 15.55          | 16.07 | 16.06 | 16.56 | 17.12 |