

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: P1498467

Luminaire Tested: MAE-G-2-120-2LO-LO-35

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498467  
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-2-120-2LO-LO-35  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient , LO exam illumination levels  
Light Source: -  
Ballast/Driver: -

**Summary**

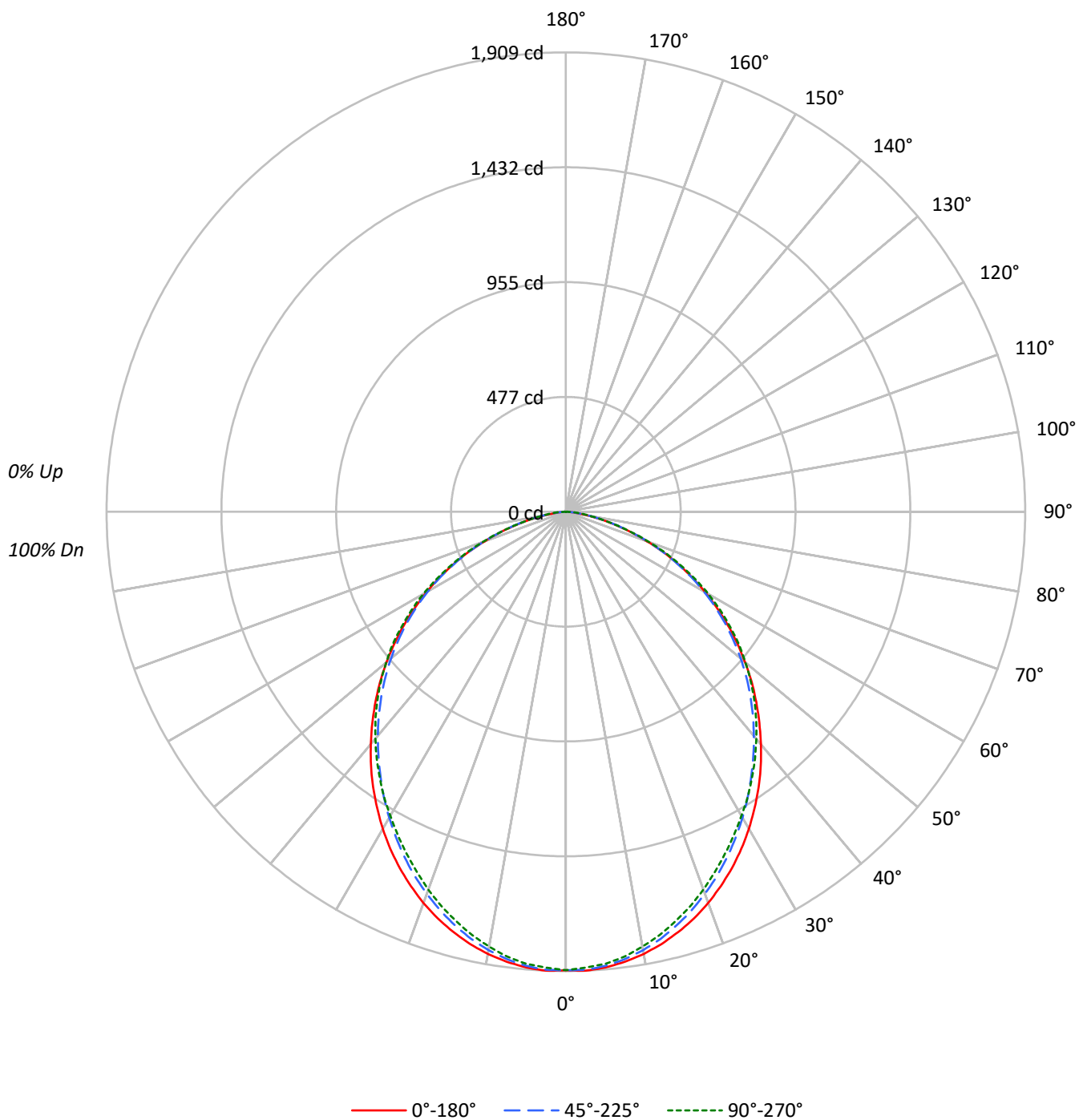
Lumens per Lamp: N/A  
Luminaire Lumens: 4629.0 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 49  
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  | 87  | 85  |
| 2   | 100 | 92  | 86  | 81  | 98  | 90  | 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°  | 5127 | 5127 | 5127 |
| 5°  | 5134 | 5117 | 5093 |
| 10° | 5098 | 5055 | 5015 |
| 15° | 5036 | 4958 | 4906 |
| 20° | 4954 | 4838 | 4785 |
| 25° | 4850 | 4705 | 4652 |
| 30° | 4727 | 4561 | 4534 |
| 35° | 4588 | 4412 | 4431 |
| 40° | 4430 | 4271 | 4326 |
| 45° | 4259 | 4127 | 4216 |
| 50° | 4073 | 3971 | 4079 |
| 55° | 3857 | 3787 | 3910 |
| 60° | 3600 | 3559 | 3689 |
| 65° | 3275 | 3258 | 3354 |
| 70° | 2829 | 2851 | 2903 |
| 75° | 2255 | 2323 | 2313 |
| 80° | 1530 | 1630 | 1657 |
| 85° | 790  | 1102 | 1420 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 4259 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 179.1  | 3.9       |
| 10°-20°   | 501.3  | 10.8      |
| 20°-30°   | 732.5  | 15.8      |
| 30°-40°   | 848.9  | 18.3      |
| 40°-50°   | 846.8  | 18.3      |
| 50°-60°   | 729.0  | 15.7      |
| 60°-70°   | 509.4  | 11.0      |
| 70°-80°   | 236.9  | 5.1       |
| 80°-90°   | 45.1   | 1.0       |
| 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°    | 1412.9 | 30.5      |
| 0°-40°    | 2261.8 | 48.9      |
| 0°-60°    | 3837.6 | 82.9      |
| 0°-90°    | 4629.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4629.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1905 | 1905  | 1905 | 1905  | 1905 |      |
| 5°  | 1901 | 1894  | 1894 | 1883  | 1886 | 180  |
| 15° | 1808 | 1795  | 1780 | 1760  | 1761 | 510  |
| 25° | 1634 | 1614  | 1585 | 1565  | 1567 | 752  |
| 35° | 1397 | 1371  | 1343 | 1340  | 1349 | 873  |
| 45° | 1119 | 1096  | 1084 | 1097  | 1108 | 863  |
| 55° | 822  | 804   | 807  | 825   | 833  | 734  |
| 65° | 514  | 505   | 512  | 521   | 527  | 509  |
| 75° | 217  | 214   | 223  | 223   | 222  | 233  |
| 85° | 26   | 29    | 36   | 43    | 46   | 38   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1905.1 | 1905.1 | 1905.1 | 1905.1 | 1905.1 |
| 2.5°  | 1908.9 | 1903.0 | 1905.1 | 1896.5 | 1896.1 |
| 5°    | 1900.6 | 1893.9 | 1894.3 | 1883.0 | 1885.5 |
| 7.5°  | 1886.0 | 1878.1 | 1875.5 | 1862.6 | 1864.9 |
| 10°   | 1865.8 | 1856.0 | 1849.9 | 1834.0 | 1835.2 |
| 12.5° | 1839.8 | 1828.6 | 1818.3 | 1799.8 | 1801.7 |
| 15°   | 1807.6 | 1794.8 | 1779.6 | 1760.0 | 1761.0 |
| 17.5° | 1772.0 | 1758.0 | 1736.8 | 1716.0 | 1718.9 |
| 20°   | 1730.0 | 1714.5 | 1689.5 | 1667.8 | 1670.8 |
| 22.5° | 1683.3 | 1665.7 | 1639.5 | 1617.9 | 1619.4 |
| 25°   | 1633.5 | 1613.9 | 1584.7 | 1565.0 | 1566.8 |
| 27.5° | 1579.4 | 1557.6 | 1527.7 | 1509.8 | 1513.2 |
| 30°   | 1521.3 | 1498.3 | 1467.9 | 1454.2 | 1459.0 |
| 32.5° | 1460.1 | 1436.4 | 1406.8 | 1398.7 | 1406.1 |
| 35°   | 1396.7 | 1371.4 | 1343.0 | 1340.4 | 1348.7 |
| 37.5° | 1330.7 | 1305.8 | 1279.9 | 1282.6 | 1291.2 |
| 40°   | 1261.0 | 1237.4 | 1215.7 | 1222.2 | 1231.5 |
| 42.5° | 1190.7 | 1168.0 | 1150.7 | 1161.1 | 1171.1 |
| 45°   | 1119.1 | 1096.4 | 1084.4 | 1097.3 | 1107.9 |
| 47.5° | 1047.8 | 1025.0 | 1017.5 | 1032.7 | 1042.4 |
| 50°   | 972.8  | 952.2  | 948.5  | 965.2  | 974.4  |
| 52.5° | 897.0  | 877.9  | 878.4  | 896.6  | 908.1  |
| 55°   | 822.2  | 804.4  | 807.2  | 825.3  | 833.4  |
| 57.5° | 745.4  | 730.9  | 735.4  | 751.8  | 760.0  |
| 60°   | 668.9  | 655.4  | 661.2  | 677.2  | 685.4  |
| 62.5° | 591.4  | 579.6  | 587.0  | 600.7  | 606.4  |
| 65°   | 514.3  | 505.0  | 511.6  | 521.1  | 526.7  |
| 67.5° | 438.1  | 429.6  | 437.4  | 446.9  | 449.2  |
| 70°   | 359.5  | 353.7  | 362.4  | 368.6  | 369.0  |
| 72.5° | 287.1  | 281.7  | 290.4  | 293.6  | 292.6  |
| 75°   | 216.9  | 213.9  | 223.4  | 222.8  | 222.5  |
| 77.5° | 153.2  | 153.9  | 159.5  | 159.4  | 159.6  |
| 80°   | 98.7   | 102.2  | 105.2  | 107.4  | 106.9  |
| 82.5° | 55.6   | 59.0   | 62.9   | 70.7   | 73.9   |
| 85°   | 25.6   | 28.9   | 35.7   | 43.0   | 46.0   |
| 87.5° | 8.6    | 11.2   | 15.1   | 16.2   | 15.4   |
| 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 | 16.61            | 18.19 | 16.97 | 18.50 | 18.82 | 16.79          | 18.38 | 17.16 | 18.69 | 19.00 |
|                 | 3H   | 18.07            | 19.50 | 18.45 | 19.82 | 20.19 | 18.27          | 19.70 | 18.65 | 20.03 | 20.39 |
|                 | 4H   | 18.50            | 19.84 | 18.90 | 20.19 | 20.56 | 18.70          | 20.04 | 19.10 | 20.39 | 20.76 |
|                 | 6H   | 18.71            | 19.95 | 19.12 | 20.31 | 20.70 | 18.92          | 20.16 | 19.33 | 20.52 | 20.91 |
|                 | 8H   | 18.74            | 19.92 | 19.16 | 20.30 | 20.70 | 18.97          | 20.15 | 19.40 | 20.54 | 20.94 |
|                 | 12H  | 18.74            | 19.86 | 19.17 | 20.25 | 20.67 | 19.00          | 20.13 | 19.43 | 20.51 | 20.94 |
| 4H              | 2H   | 17.16            | 18.50 | 17.56 | 18.85 | 19.22 | 17.31          | 18.65 | 17.71 | 19.00 | 19.37 |
|                 | 3H   | 18.80            | 19.92 | 19.21 | 20.32 | 20.72 | 18.98          | 20.09 | 19.39 | 20.49 | 20.89 |
|                 | 4H   | 19.32            | 20.32 | 19.75 | 20.73 | 21.17 | 19.50          | 20.50 | 19.93 | 20.92 | 21.35 |
|                 | 6H   | 19.60            | 20.48 | 20.06 | 20.92 | 21.38 | 19.80          | 20.67 | 20.26 | 21.12 | 21.57 |
|                 | 8H   | 19.65            | 20.46 | 20.11 | 20.91 | 21.37 | 19.88          | 20.69 | 20.34 | 21.13 | 21.60 |
|                 | 12H  | 19.66            | 20.39 | 20.14 | 20.87 | 21.34 | 19.93          | 20.66 | 20.42 | 21.14 | 21.61 |
| 8H              | 4H   | 19.51            | 20.32 | 19.97 | 20.76 | 21.23 | 19.68          | 20.49 | 20.14 | 20.93 | 21.40 |
|                 | 6H   | 19.85            | 20.52 | 20.35 | 21.01 | 21.49 | 20.04          | 20.71 | 20.53 | 21.20 | 21.68 |
|                 | 8H   | 19.92            | 20.53 | 20.44 | 21.03 | 21.52 | 20.15          | 20.75 | 20.66 | 21.26 | 21.75 |
|                 | 12H  | 19.96            | 20.49 | 20.47 | 20.98 | 21.55 | 20.25          | 20.78 | 20.76 | 21.27 | 21.83 |
| 12H             | 4H   | 19.51            | 20.24 | 19.99 | 20.71 | 21.18 | 19.67          | 20.40 | 20.15 | 20.88 | 21.35 |
|                 | 6H   | 19.85            | 20.46 | 20.37 | 20.97 | 21.45 | 20.04          | 20.64 | 20.55 | 21.15 | 21.63 |
|                 | 8H   | 19.96            | 20.49 | 20.47 | 20.98 | 21.55 | 20.18          | 20.72 | 20.69 | 21.21 | 21.77 |