

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: P1498463

Luminaire Tested: MAE-G-2-120-2LO-LO-35-90-WDDCPH

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498463  
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-35-90-WDDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 LO ambient , LO exam illumination levels  
Light Source: -  
Ballast/Driver: -

**Summary**

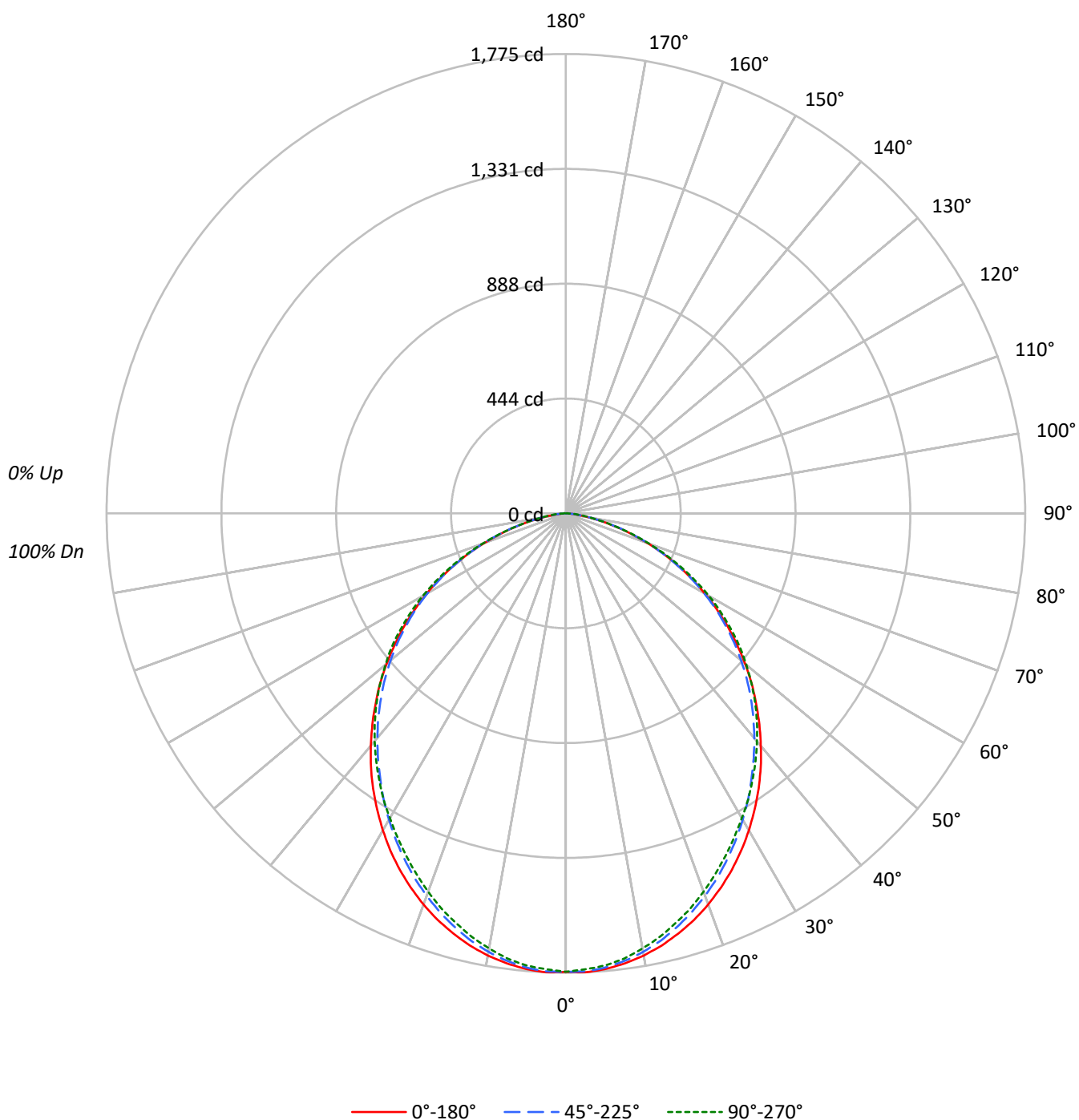
Lumens per Lamp: N/A  
Luminaire Lumens: 4309.1 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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  | 88  | 85  |
| 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°  | 4767 | 4767 | 4767 |
| 5°  | 4774 | 4758 | 4737 |
| 10° | 4740 | 4701 | 4665 |
| 15° | 4682 | 4612 | 4566 |
| 20° | 4606 | 4503 | 4456 |
| 25° | 4509 | 4380 | 4334 |
| 30° | 4394 | 4247 | 4226 |
| 35° | 4265 | 4109 | 4132 |
| 40° | 4117 | 3979 | 4036 |
| 45° | 3958 | 3846 | 3936 |
| 50° | 3785 | 3702 | 3810 |
| 55° | 3585 | 3531 | 3652 |
| 60° | 3345 | 3319 | 3444 |
| 65° | 3042 | 3037 | 3124 |
| 70° | 2627 | 2654 | 2696 |
| 75° | 2094 | 2154 | 2136 |
| 80° | 1420 | 1503 | 1514 |
| 85° | 732  | 1010 | 1288 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3958 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 166.6  | 3.9       |
| 10°-20°   | 466.4  | 10.8      |
| 20°-30°   | 681.8  | 15.8      |
| 30°-40°   | 790.5  | 18.3      |
| 40°-50°   | 788.9  | 18.3      |
| 50°-60°   | 679.5  | 15.8      |
| 60°-70°   | 474.4  | 11.0      |
| 70°-80°   | 219.6  | 5.1       |
| 80°-90°   | 41.4   | 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°    | 1314.7 | 30.5      |
| 0°-40°    | 2105.2 | 48.9      |
| 0°-60°    | 3573.6 | 82.9      |
| 0°-90°    | 4309.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4309.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1771 | 1771  | 1771 | 1771  | 1771 |      |
| 5°  | 1767 | 1761  | 1761 | 1751  | 1754 | 168  |
| 15° | 1681 | 1669  | 1656 | 1638  | 1639 | 474  |
| 25° | 1519 | 1501  | 1475 | 1458  | 1460 | 699  |
| 35° | 1298 | 1276  | 1251 | 1250  | 1258 | 811  |
| 45° | 1040 | 1020  | 1011 | 1024  | 1034 | 802  |
| 55° | 764  | 748   | 753  | 770   | 778  | 682  |
| 65° | 478  | 470   | 477  | 486   | 491  | 473  |
| 75° | 201  | 199   | 207  | 206   | 205  | 217  |
| 85° | 24   | 27    | 33   | 39    | 42   | 35   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1771.3 | 1771.3 | 1771.3 | 1771.3 | 1771.3 |
| 2.5°  | 1774.9 | 1769.2 | 1771.3 | 1763.5 | 1763.1 |
| 5°    | 1767.2 | 1760.9 | 1761.4 | 1751.1 | 1753.5 |
| 7.5°  | 1753.6 | 1746.2 | 1744.0 | 1732.4 | 1734.5 |
| 10°   | 1734.8 | 1725.6 | 1720.5 | 1706.1 | 1707.2 |
| 12.5° | 1710.6 | 1700.2 | 1691.3 | 1674.7 | 1676.5 |
| 15°   | 1680.6 | 1668.9 | 1655.6 | 1638.1 | 1639.1 |
| 17.5° | 1647.5 | 1634.8 | 1616.0 | 1597.5 | 1600.4 |
| 20°   | 1608.3 | 1594.3 | 1572.3 | 1552.9 | 1556.0 |
| 22.5° | 1565.0 | 1549.0 | 1526.0 | 1506.8 | 1508.4 |
| 25°   | 1518.6 | 1500.9 | 1475.2 | 1457.8 | 1459.8 |
| 27.5° | 1468.3 | 1448.6 | 1422.3 | 1406.7 | 1410.0 |
| 30°   | 1414.2 | 1393.5 | 1366.9 | 1355.2 | 1359.9 |
| 32.5° | 1357.2 | 1336.0 | 1310.2 | 1303.7 | 1311.0 |
| 35°   | 1298.4 | 1275.7 | 1250.9 | 1249.7 | 1257.7 |
| 37.5° | 1237.0 | 1214.7 | 1192.3 | 1196.1 | 1204.4 |
| 40°   | 1172.0 | 1151.1 | 1132.7 | 1139.9 | 1148.9 |
| 42.5° | 1106.8 | 1086.5 | 1072.4 | 1083.1 | 1092.9 |
| 45°   | 1040.1 | 1020.0 | 1010.6 | 1023.8 | 1034.3 |
| 47.5° | 973.8  | 953.6  | 948.5  | 963.8  | 973.2  |
| 50°   | 904.1  | 885.9  | 884.2  | 900.9  | 910.0  |
| 52.5° | 833.6  | 816.8  | 819.0  | 836.9  | 848.2  |
| 55°   | 764.1  | 748.5  | 752.6  | 770.5  | 778.4  |
| 57.5° | 692.6  | 680.2  | 685.8  | 701.8  | 709.8  |
| 60°   | 621.5  | 610.0  | 616.7  | 632.0  | 639.9  |
| 62.5° | 549.5  | 539.5  | 547.3  | 560.4  | 565.5  |
| 65°   | 477.7  | 470.0  | 476.9  | 485.5  | 490.7  |
| 67.5° | 407.0  | 399.8  | 407.6  | 415.9  | 417.9  |
| 70°   | 333.9  | 329.3  | 337.3  | 342.4  | 342.6  |
| 72.5° | 266.6  | 262.2  | 270.0  | 272.2  | 271.0  |
| 75°   | 201.4  | 198.9  | 207.2  | 205.9  | 205.4  |
| 77.5° | 142.1  | 143.0  | 147.6  | 146.7  | 146.5  |
| 80°   | 91.6   | 94.8   | 97.0   | 98.2   | 97.7   |
| 82.5° | 51.5   | 54.5   | 57.6   | 64.5   | 67.3   |
| 85°   | 23.7   | 26.6   | 32.7   | 39.1   | 41.7   |
| 87.5° | 8.0    | 10.3   | 13.7   | 14.8   | 14.0   |
| 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 | 16.35            | 17.94 | 16.72 | 18.25 | 18.57 | 16.56          | 18.15 | 16.93 | 18.46 | 18.78 |
|                 | 3H   | 17.82            | 19.24 | 18.20 | 19.57 | 19.93 | 18.04          | 19.46 | 18.41 | 19.79 | 20.15 |
|                 | 4H   | 18.24            | 19.58 | 18.64 | 19.93 | 20.31 | 18.46          | 19.79 | 18.85 | 20.14 | 20.52 |
|                 | 6H   | 18.45            | 19.69 | 18.86 | 20.05 | 20.45 | 18.67          | 19.90 | 19.08 | 20.27 | 20.66 |
|                 | 8H   | 18.48            | 19.66 | 18.91 | 20.05 | 20.45 | 18.71          | 19.89 | 19.14 | 20.28 | 20.68 |
|                 | 12H  | 18.48            | 19.61 | 18.91 | 19.99 | 20.42 | 18.74          | 19.87 | 19.17 | 20.25 | 20.68 |
| 4H              | 2H   | 16.91            | 18.25 | 17.31 | 18.60 | 18.97 | 17.08          | 18.42 | 17.48 | 18.77 | 19.14 |
|                 | 3H   | 18.55            | 19.67 | 18.96 | 20.06 | 20.46 | 18.74          | 19.85 | 19.15 | 20.25 | 20.65 |
|                 | 4H   | 19.06            | 20.07 | 19.50 | 20.48 | 20.92 | 19.25          | 20.25 | 19.68 | 20.67 | 21.10 |
|                 | 6H   | 19.35            | 20.22 | 19.81 | 20.66 | 21.12 | 19.54          | 20.41 | 20.00 | 20.86 | 21.31 |
|                 | 8H   | 19.39            | 20.21 | 19.86 | 20.65 | 21.12 | 19.61          | 20.43 | 20.08 | 20.87 | 21.34 |
|                 | 12H  | 19.41            | 20.13 | 19.89 | 20.61 | 21.08 | 19.67          | 20.39 | 20.15 | 20.87 | 21.34 |
| 8H              | 4H   | 19.25            | 20.07 | 19.71 | 20.51 | 20.98 | 19.42          | 20.24 | 19.89 | 20.68 | 21.15 |
|                 | 6H   | 19.60            | 20.27 | 20.09 | 20.76 | 21.23 | 19.77          | 20.45 | 20.27 | 20.94 | 21.41 |
|                 | 8H   | 19.67            | 20.27 | 20.18 | 20.78 | 21.26 | 19.88          | 20.48 | 20.39 | 20.99 | 21.48 |
|                 | 12H  | 19.70            | 20.23 | 20.21 | 20.72 | 21.29 | 19.97          | 20.50 | 20.48 | 21.00 | 21.56 |
| 12H             | 4H   | 19.25            | 19.98 | 19.73 | 20.46 | 20.93 | 19.42          | 20.15 | 19.90 | 20.63 | 21.10 |
|                 | 6H   | 19.60            | 20.20 | 20.11 | 20.71 | 21.19 | 19.77          | 20.37 | 20.28 | 20.88 | 21.37 |
|                 | 8H   | 19.70            | 20.23 | 20.21 | 20.72 | 21.29 | 19.91          | 20.44 | 20.42 | 20.94 | 21.50 |