

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: P1498472

Luminaire Tested: MAE-G-2-120-2LO-LO-40-WDDCPH

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498472  
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-40-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**

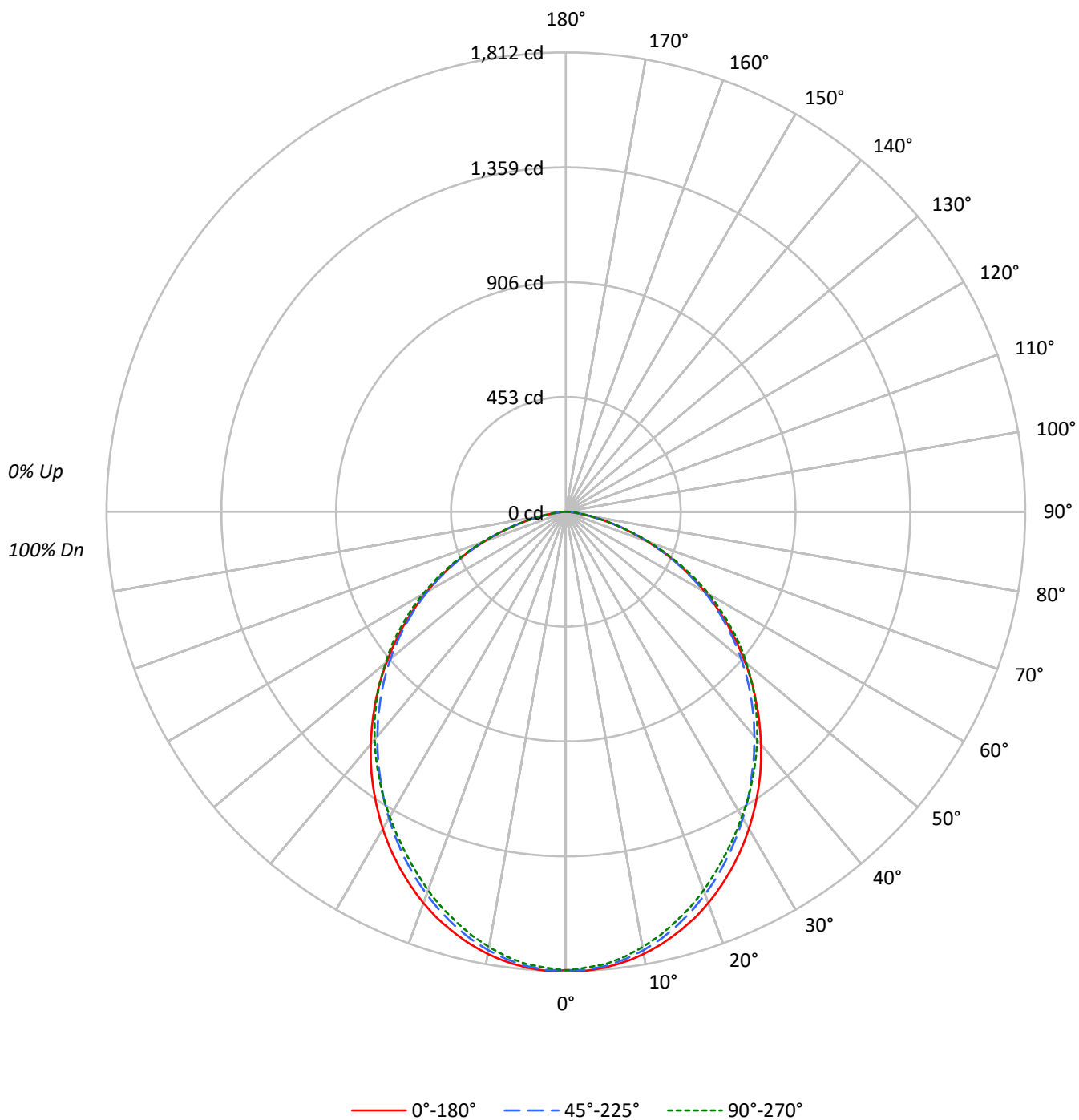
Lumens per Lamp: N/A  
Luminaire Lumens: 4400.0 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 |
| 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°  | 4867 | 4867 | 4867 |
| 5°  | 4874 | 4858 | 4837 |
| 10° | 4840 | 4800 | 4763 |
| 15° | 4781 | 4710 | 4662 |
| 20° | 4703 | 4597 | 4550 |
| 25° | 4604 | 4473 | 4426 |
| 30° | 4487 | 4337 | 4315 |
| 35° | 4355 | 4196 | 4219 |
| 40° | 4204 | 4063 | 4121 |
| 45° | 4042 | 3927 | 4019 |
| 50° | 3864 | 3780 | 3890 |
| 55° | 3660 | 3605 | 3729 |
| 60° | 3415 | 3389 | 3517 |
| 65° | 3106 | 3101 | 3191 |
| 70° | 2683 | 2710 | 2752 |
| 75° | 2138 | 2200 | 2180 |
| 80° | 1449 | 1534 | 1547 |
| 85° | 744  | 1028 | 1318 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4042 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 170.1  | 3.9       |
| 10°-20°   | 476.2  | 10.8      |
| 20°-30°   | 696.2  | 15.8      |
| 30°-40°   | 807.2  | 18.3      |
| 40°-50°   | 805.6  | 18.3      |
| 50°-60°   | 693.8  | 15.8      |
| 60°-70°   | 484.4  | 11.0      |
| 70°-80°   | 224.3  | 5.1       |
| 80°-90°   | 42.3   | 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°    | 1342.5 | 30.5      |
| 0°-40°    | 2149.7 | 48.9      |
| 0°-60°    | 3649.1 | 82.9      |
| 0°-90°    | 4400.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4400.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1809 | 1809  | 1809 | 1809  | 1809 |      |
| 5°  | 1804 | 1798  | 1799 | 1788  | 1790 | 171  |
| 15° | 1716 | 1704  | 1690 | 1673  | 1674 | 484  |
| 25° | 1551 | 1533  | 1506 | 1489  | 1491 | 714  |
| 35° | 1326 | 1303  | 1277 | 1276  | 1284 | 829  |
| 45° | 1062 | 1042  | 1032 | 1045  | 1056 | 819  |
| 55° | 780  | 764   | 768  | 787   | 795  | 697  |
| 65° | 488  | 480   | 487  | 496   | 501  | 483  |
| 75° | 206  | 203   | 212  | 210   | 210  | 221  |
| 85° | 24   | 27    | 33   | 40    | 43   | 36   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1808.7 | 1808.7 | 1808.7 | 1808.7 | 1808.7 |
| 2.5°  | 1812.4 | 1806.6 | 1808.7 | 1800.7 | 1800.3 |
| 5°    | 1804.5 | 1798.0 | 1798.6 | 1788.1 | 1790.5 |
| 7.5°  | 1790.6 | 1783.1 | 1780.9 | 1769.0 | 1771.2 |
| 10°   | 1771.4 | 1762.1 | 1756.8 | 1742.1 | 1743.2 |
| 12.5° | 1746.7 | 1736.1 | 1727.0 | 1710.1 | 1711.9 |
| 15°   | 1716.1 | 1704.1 | 1690.5 | 1672.6 | 1673.6 |
| 17.5° | 1682.3 | 1669.3 | 1650.1 | 1631.2 | 1634.2 |
| 20°   | 1642.3 | 1628.0 | 1605.4 | 1585.8 | 1588.8 |
| 22.5° | 1598.1 | 1581.7 | 1558.2 | 1538.6 | 1540.3 |
| 25°   | 1550.7 | 1532.7 | 1506.4 | 1488.6 | 1490.6 |
| 27.5° | 1499.3 | 1479.2 | 1452.4 | 1436.4 | 1439.9 |
| 30°   | 1444.1 | 1422.9 | 1395.8 | 1383.8 | 1388.7 |
| 32.5° | 1385.9 | 1364.3 | 1337.8 | 1331.2 | 1338.7 |
| 35°   | 1325.8 | 1302.6 | 1277.3 | 1276.1 | 1284.2 |
| 37.5° | 1263.1 | 1240.4 | 1217.5 | 1221.3 | 1229.9 |
| 40°   | 1196.8 | 1175.4 | 1156.7 | 1163.9 | 1173.2 |
| 42.5° | 1130.2 | 1109.4 | 1095.0 | 1106.0 | 1116.0 |
| 45°   | 1062.0 | 1041.5 | 1032.0 | 1045.4 | 1056.1 |
| 47.5° | 994.3  | 973.7  | 968.5  | 984.2  | 993.7  |
| 50°   | 923.1  | 904.7  | 902.9  | 919.9  | 929.2  |
| 52.5° | 851.2  | 834.1  | 836.3  | 854.6  | 866.1  |
| 55°   | 780.2  | 764.3  | 768.5  | 786.8  | 794.9  |
| 57.5° | 707.3  | 694.5  | 700.3  | 716.6  | 724.7  |
| 60°   | 634.6  | 622.8  | 629.7  | 645.4  | 653.4  |
| 62.5° | 561.1  | 550.8  | 559.0  | 572.3  | 577.5  |
| 65°   | 487.8  | 479.9  | 487.0  | 495.8  | 501.1  |
| 67.5° | 415.5  | 408.2  | 416.1  | 424.7  | 426.6  |
| 70°   | 341.0  | 336.2  | 344.5  | 349.7  | 349.8  |
| 72.5° | 272.3  | 267.6  | 275.7  | 277.9  | 276.6  |
| 75°   | 205.6  | 203.2  | 211.6  | 210.3  | 209.7  |
| 77.5° | 145.1  | 146.1  | 150.7  | 149.7  | 149.5  |
| 80°   | 93.5   | 96.8   | 99.0   | 100.3  | 99.8   |
| 82.5° | 52.5   | 55.6   | 58.8   | 65.9   | 68.7   |
| 85°   | 24.1   | 27.2   | 33.3   | 39.9   | 42.7   |
| 87.5° | 8.1    | 10.5   | 14.0   | 15.1   | 14.3   |
| 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 | 16.43            | 18.01 | 16.79 | 18.32 | 18.64 | 16.64          | 18.22 | 17.00 | 18.53 | 18.85 |
|                 | 3H   | 17.89            | 19.32 | 18.27 | 19.64 | 20.00 | 18.11          | 19.53 | 18.49 | 19.86 | 20.22 |
|                 | 4H   | 18.32            | 19.65 | 18.72 | 20.00 | 20.38 | 18.53          | 19.87 | 18.93 | 20.21 | 20.59 |
|                 | 6H   | 18.52            | 19.76 | 18.94 | 20.13 | 20.52 | 18.74          | 19.98 | 19.15 | 20.34 | 20.73 |
|                 | 8H   | 18.55            | 19.73 | 18.98 | 20.12 | 20.52 | 18.79          | 19.97 | 19.21 | 20.35 | 20.75 |
|                 | 12H  | 18.55            | 19.68 | 18.98 | 20.06 | 20.49 | 18.81          | 19.94 | 19.24 | 20.33 | 20.75 |
| 4H              | 2H   | 16.98            | 18.32 | 17.38 | 18.67 | 19.05 | 17.15          | 18.49 | 17.55 | 18.84 | 19.22 |
|                 | 3H   | 18.63            | 19.74 | 19.04 | 20.14 | 20.54 | 18.81          | 19.92 | 19.22 | 20.32 | 20.72 |
|                 | 4H   | 19.14            | 20.14 | 19.57 | 20.55 | 20.99 | 19.32          | 20.32 | 19.76 | 20.74 | 21.18 |
|                 | 6H   | 19.42            | 20.29 | 19.88 | 20.74 | 21.19 | 19.62          | 20.49 | 20.07 | 20.93 | 21.39 |
|                 | 8H   | 19.47            | 20.28 | 19.93 | 20.72 | 21.19 | 19.69          | 20.50 | 20.15 | 20.94 | 21.41 |
|                 | 12H  | 19.48            | 20.21 | 19.96 | 20.68 | 21.15 | 19.74          | 20.47 | 20.22 | 20.94 | 21.41 |
| 8H              | 4H   | 19.33            | 20.14 | 19.79 | 20.58 | 21.05 | 19.50          | 20.31 | 19.96 | 20.75 | 21.22 |
|                 | 6H   | 19.67            | 20.34 | 20.16 | 20.83 | 21.31 | 19.85          | 20.52 | 20.34 | 21.01 | 21.48 |
|                 | 8H   | 19.74            | 20.34 | 20.25 | 20.85 | 21.34 | 19.95          | 20.55 | 20.46 | 21.06 | 21.55 |
|                 | 12H  | 19.77            | 20.31 | 20.28 | 20.80 | 21.36 | 20.05          | 20.58 | 20.55 | 21.07 | 21.63 |
| 12H             | 4H   | 19.33            | 20.05 | 19.81 | 20.53 | 21.00 | 19.49          | 20.22 | 19.97 | 20.70 | 21.17 |
|                 | 6H   | 19.67            | 20.27 | 20.18 | 20.78 | 21.27 | 19.84          | 20.45 | 20.36 | 20.96 | 21.44 |
|                 | 8H   | 19.77            | 20.30 | 20.28 | 20.80 | 21.36 | 19.99          | 20.52 | 20.50 | 21.01 | 21.57 |