

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: P1498527

Luminaire Tested: MAE-G-2-120-2STD-50

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498527  
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-2-120-2STD-50  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient illumination levels  
Light Source: -  
Ballast/Driver: -

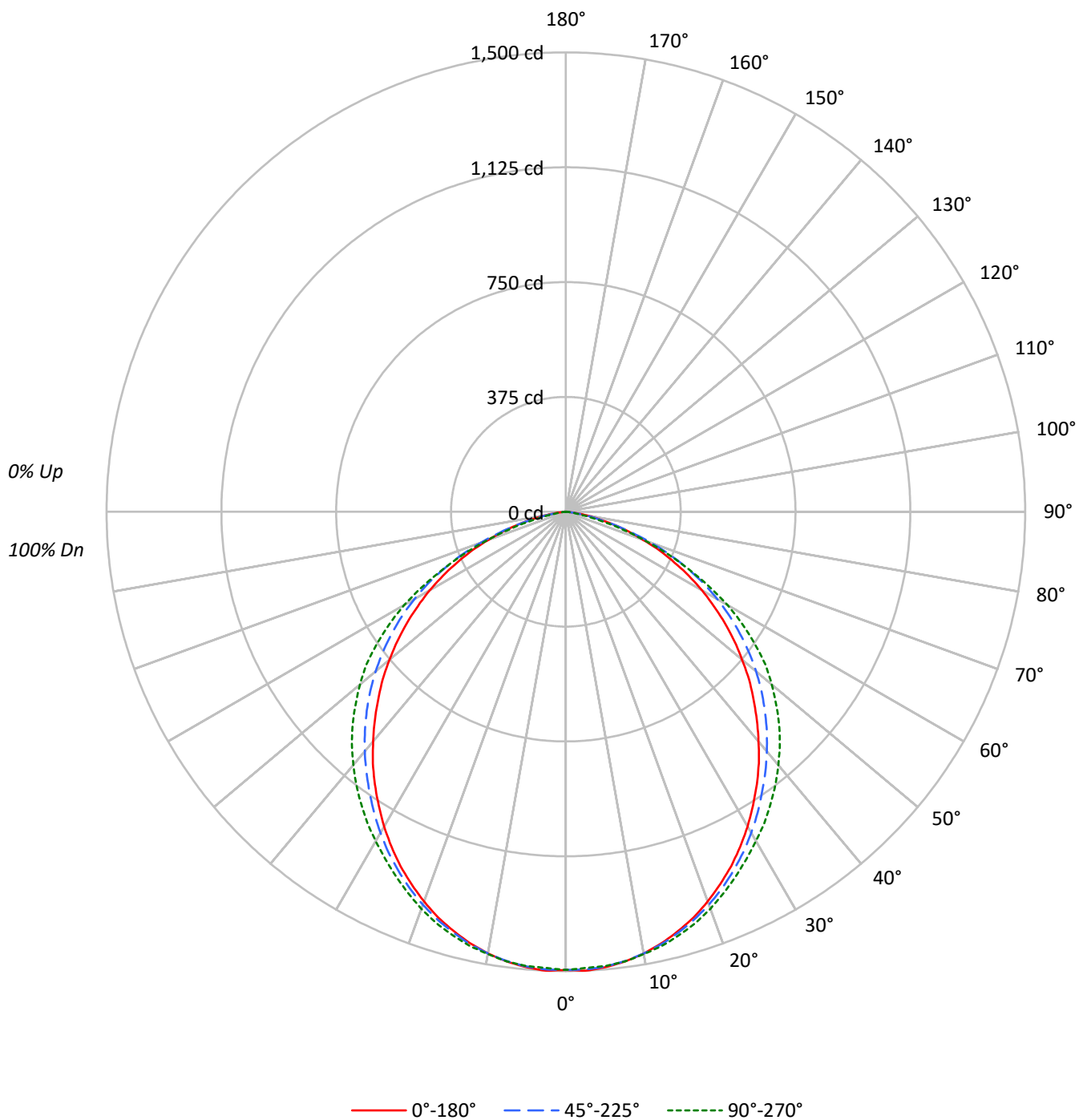
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3776.0 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 34.8  
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 | 102 | 98  | 107 | 103 | 100 | 97  | 99  | 96  | 93  | 95  | 93  | 91  | 92  | 90  | 88  | 86  |    |    |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |    |    |
| 3   | 92  | 82  | 74  | 68  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 75  | 69  | 65  | 72  | 68  | 64  | 62  |    |    |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 64  | 58  | 69  | 62  | 57  | 67  | 61  | 56  | 65  | 59  | 55  | 53  |    |    |
| 5   | 78  | 65  | 57  | 50  | 76  | 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  | 40  | 35  | 60  | 48  | 40  | 35  | 47  | 40  | 34  | 46  | 39  | 34  | 44  | 38  | 34  | 32  |    |    |
| 9   | 58  | 45  | 37  | 31  | 57  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 31  | 29  |    |    |
| 10  | 54  | 41  | 34  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |    |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4025 | 4025 | 4025 |
| 5°  | 4032 | 4026 | 4022 |
| 10° | 4001 | 4001 | 4007 |
| 15° | 3948 | 3962 | 3986 |
| 20° | 3878 | 3910 | 3950 |
| 25° | 3791 | 3842 | 3899 |
| 30° | 3687 | 3763 | 3858 |
| 35° | 3571 | 3671 | 3828 |
| 40° | 3439 | 3588 | 3791 |
| 45° | 3298 | 3499 | 3750 |
| 50° | 3145 | 3394 | 3674 |
| 55° | 2972 | 3258 | 3537 |
| 60° | 2761 | 3075 | 3284 |
| 65° | 2490 | 2795 | 2811 |
| 70° | 2126 | 2326 | 2174 |
| 75° | 1669 | 1684 | 1358 |
| 80° | 1086 | 866  | 521  |
| 85° | 503  | 330  | 266  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3750 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 141.3  | 3.7       |
| 10°-20°   | 400.7  | 10.6      |
| 20°-30°   | 595.3  | 15.8      |
| 30°-40°   | 701.1  | 18.6      |
| 40°-50°   | 710.3  | 18.8      |
| 50°-60°   | 618.3  | 16.4      |
| 60°-70°   | 421.3  | 11.2      |
| 70°-80°   | 168.4  | 4.5       |
| 80°-90°   | 19.3   | 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°    | 1137.3 | 30.1      |
| 0°-40°    | 1838.4 | 48.7      |
| 0°-60°    | 3167.0 | 83.9      |
| 0°-90°    | 3776.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3776.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1496 | 1496  | 1496 | 1496  | 1496 |      |
| 5°  | 1493 | 1484  | 1490 | 1488  | 1489 | 142  |
| 15° | 1417 | 1411  | 1422 | 1427  | 1431 | 399  |
| 25° | 1277 | 1278  | 1294 | 1304  | 1313 | 588  |
| 35° | 1087 | 1092  | 1118 | 1147  | 1165 | 679  |
| 45° | 867  | 877   | 919  | 963   | 985  | 669  |
| 55° | 633  | 647   | 694  | 738   | 754  | 566  |
| 65° | 391  | 409   | 439  | 439   | 441  | 388  |
| 75° | 160  | 170   | 162  | 139   | 131  | 173  |
| 85° | 16   | 15    | 11   | 10    | 9    | 26   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1495.9 | 1495.9 | 1495.9 | 1495.9 | 1495.9 |
| 2.5°  | 1500.0 | 1490.4 | 1495.9 | 1494.8 | 1490.8 |
| 5°    | 1492.8 | 1484.2 | 1490.4 | 1488.3 | 1488.8 |
| 7.5°  | 1481.2 | 1473.1 | 1479.7 | 1479.1 | 1480.7 |
| 10°   | 1464.4 | 1456.3 | 1464.4 | 1464.9 | 1466.4 |
| 12.5° | 1443.5 | 1436.5 | 1446.1 | 1448.1 | 1451.7 |
| 15°   | 1417.2 | 1411.1 | 1422.2 | 1427.4 | 1430.9 |
| 17.5° | 1388.8 | 1384.7 | 1395.8 | 1402.5 | 1408.1 |
| 20°   | 1354.2 | 1352.2 | 1365.4 | 1371.9 | 1379.5 |
| 22.5° | 1316.6 | 1315.6 | 1331.4 | 1339.5 | 1347.1 |
| 25°   | 1276.9 | 1277.5 | 1293.8 | 1304.4 | 1313.1 |
| 27.5° | 1233.3 | 1234.3 | 1254.1 | 1266.8 | 1277.5 |
| 30°   | 1186.6 | 1189.1 | 1210.9 | 1228.2 | 1241.5 |
| 32.5° | 1137.3 | 1141.9 | 1165.2 | 1189.1 | 1205.9 |
| 35°   | 1087.0 | 1092.1 | 1117.5 | 1146.9 | 1165.2 |
| 37.5° | 1035.2 | 1040.8 | 1070.3 | 1104.8 | 1124.1 |
| 40°   | 978.9  | 987.4  | 1021.5 | 1059.6 | 1079.3 |
| 42.5° | 923.4  | 933.1  | 971.2  | 1012.9 | 1034.2 |
| 45°   | 866.6  | 877.3  | 919.4  | 962.6  | 985.4  |
| 47.5° | 811.7  | 820.8  | 866.0  | 911.3  | 931.6  |
| 50°   | 751.3  | 763.4  | 810.7  | 855.9  | 877.7  |
| 52.5° | 693.4  | 705.0  | 753.3  | 799.5  | 821.9  |
| 55°   | 633.4  | 647.1  | 694.4  | 738.1  | 753.8  |
| 57.5° | 573.0  | 588.7  | 634.4  | 670.5  | 684.2  |
| 60°   | 513.1  | 528.8  | 571.4  | 599.8  | 610.1  |
| 62.5° | 452.6  | 468.8  | 506.4  | 523.7  | 525.8  |
| 65°   | 391.1  | 409.4  | 438.9  | 439.4  | 441.4  |
| 67.5° | 332.8  | 347.9  | 369.2  | 363.2  | 360.2  |
| 70°   | 270.2  | 287.0  | 295.6  | 283.5  | 276.3  |
| 72.5° | 214.9  | 227.0  | 225.5  | 207.7  | 199.2  |
| 75°   | 160.5  | 170.2  | 162.0  | 139.2  | 130.6  |
| 77.5° | 111.3  | 119.3  | 103.1  | 81.7   | 73.2   |
| 80°   | 70.1   | 73.6   | 55.9   | 39.6   | 33.6   |
| 82.5° | 37.6   | 37.0   | 23.9   | 19.8   | 18.3   |
| 85°   | 16.3   | 14.7   | 10.7   | 9.7    | 8.6    |
| 87.5° | 5.6    | 5.1    | 4.0    | 3.6    | 3.0    |
| 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 | 15.75            | 17.34 | 16.12 | 17.65 | 17.96 | 16.72          | 18.30 | 17.08 | 18.61 | 18.93 |
|                 | 3H   | 17.18            | 18.60 | 17.55 | 18.92 | 19.28 | 17.91          | 19.33 | 18.28 | 19.65 | 20.01 |
|                 | 4H   | 17.57            | 18.90 | 17.97 | 19.25 | 19.63 | 18.12          | 19.45 | 18.52 | 19.80 | 20.18 |
|                 | 6H   | 17.74            | 18.97 | 18.15 | 19.34 | 19.73 | 18.14          | 19.37 | 18.55 | 19.73 | 20.13 |
|                 | 8H   | 17.76            | 18.93 | 18.18 | 19.32 | 19.72 | 18.11          | 19.29 | 18.54 | 19.68 | 20.08 |
|                 | 12H  | 17.75            | 18.87 | 18.18 | 19.25 | 19.68 | 18.09          | 19.21 | 18.52 | 19.59 | 20.02 |
| 4H              | 2H   | 16.42            | 17.75 | 16.81 | 18.10 | 18.47 | 17.19          | 18.52 | 17.59 | 18.87 | 19.25 |
|                 | 3H   | 17.99            | 19.10 | 18.40 | 19.50 | 19.90 | 18.54          | 19.64 | 18.95 | 20.04 | 20.44 |
|                 | 4H   | 18.47            | 19.46 | 18.90 | 19.88 | 20.31 | 18.81          | 19.80 | 19.24 | 20.21 | 20.65 |
|                 | 6H   | 18.71            | 19.57 | 19.17 | 20.01 | 20.47 | 18.86          | 19.72 | 19.31 | 20.16 | 20.62 |
|                 | 8H   | 18.73            | 19.53 | 19.19 | 19.98 | 20.44 | 18.83          | 19.64 | 19.30 | 20.08 | 20.55 |
|                 | 12H  | 18.73            | 19.45 | 19.21 | 19.93 | 20.40 | 18.81          | 19.53 | 19.29 | 20.01 | 20.48 |
| 8H              | 4H   | 18.61            | 19.41 | 19.07 | 19.85 | 20.32 | 18.92          | 19.73 | 19.38 | 20.17 | 20.64 |
|                 | 6H   | 18.88            | 19.54 | 19.38 | 20.03 | 20.51 | 18.98          | 19.64 | 19.48 | 20.13 | 20.61 |
|                 | 8H   | 18.92            | 19.51 | 19.43 | 20.02 | 20.51 | 18.96          | 19.55 | 19.47 | 20.06 | 20.55 |
|                 | 12H  | 18.93            | 19.45 | 19.44 | 19.94 | 20.51 | 18.94          | 19.46 | 19.45 | 19.96 | 20.52 |
| 12H             | 4H   | 18.59            | 19.30 | 19.07 | 19.78 | 20.25 | 18.91          | 19.63 | 19.39 | 20.11 | 20.58 |
|                 | 6H   | 18.85            | 19.44 | 19.36 | 19.95 | 20.44 | 18.96          | 19.55 | 19.47 | 20.06 | 20.55 |
|                 | 8H   | 18.91            | 19.43 | 19.42 | 19.93 | 20.49 | 18.96          | 19.48 | 19.47 | 19.97 | 20.53 |