

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: P1498286

Luminaire Tested: MAE-G-2-120-1STD-LO-50-WDDCPH

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498286  
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-2-120-1STD-LO-50-WDDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient , LO exam illumination levels  
Light Source: -  
Ballast/Driver: -

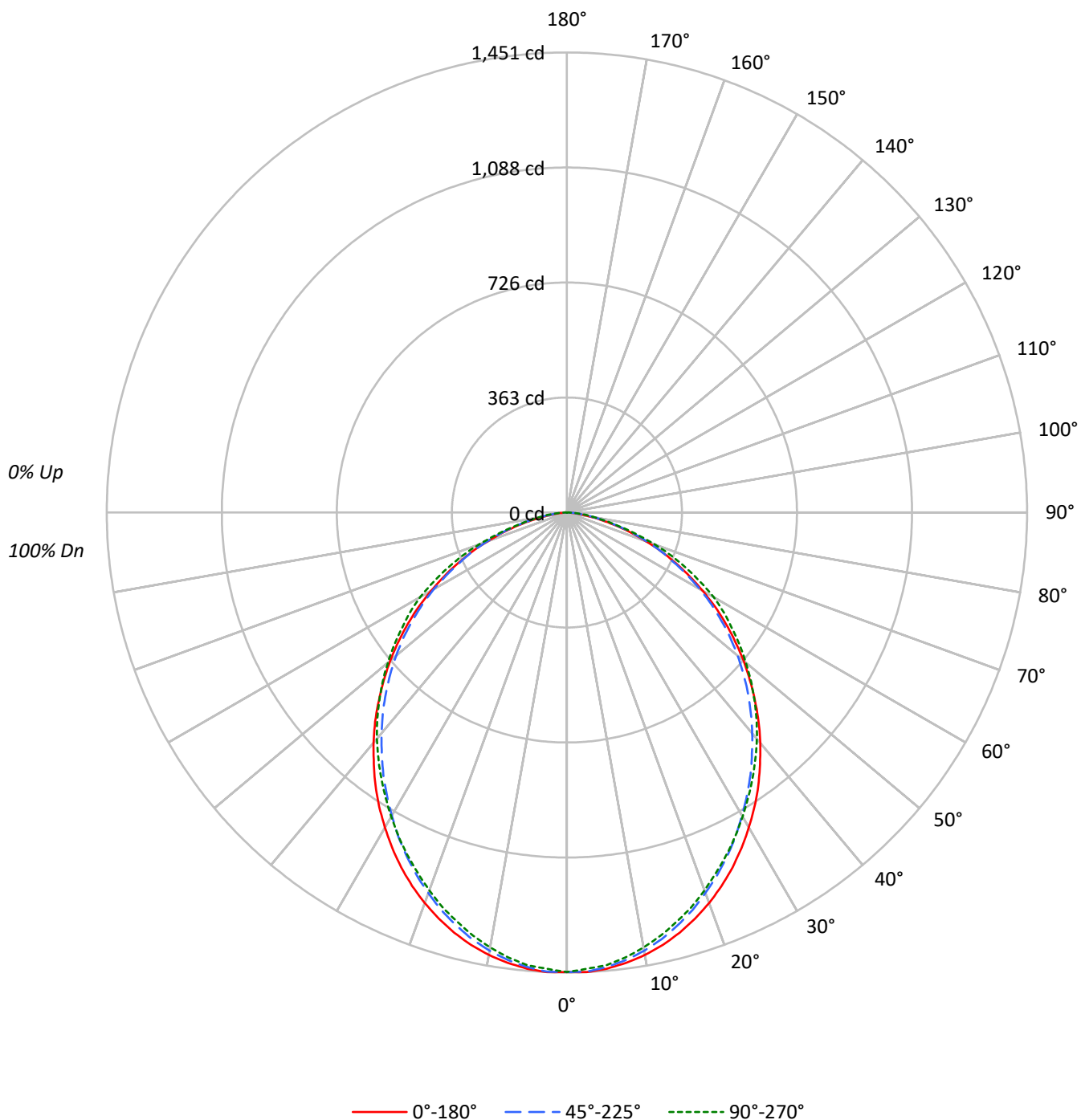
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3489.0 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.9  
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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 110 | 105 | 101 | 98  | 107 | 103 | 99  | 96  | 99  | 96  | 93  |  | 95  | 92  | 90  |  | 91  |
| 2   | 100 | 92  | 86  | 80  | 98  | 90  | 85  | 79  | 87  | 82  | 78  |  | 84  | 80  | 76  |  | 81  |
| 3   | 92  | 82  | 74  | 68  | 89  | 80  | 73  | 67  | 77  | 71  | 66  |  | 74  | 69  | 65  |  | 72  |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 57  |  | 67  | 61  | 56  |  | 64  |
| 5   | 78  | 65  | 56  | 50  | 75  | 64  | 56  | 50  | 62  | 55  | 49  |  | 60  | 54  | 49  |  | 58  |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 43  |  | 54  | 48  | 43  |  | 53  |
| 7   | 67  | 53  | 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  | 32  | 57  | 44  | 37  | 31  | 43  | 36  | 31  |  | 42  | 36  | 31  |  | 41  |
| 10  | 55  | 42  | 34  | 29  | 53  | 41  | 34  | 29  | 40  | 33  | 28  |  | 39  | 33  | 28  |  | 38  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3900 | 3900 | 3900 |
| 5°  | 3901 | 3887 | 3871 |
| 10° | 3872 | 3835 | 3806 |
| 15° | 3823 | 3756 | 3724 |
| 20° | 3753 | 3657 | 3632 |
| 25° | 3668 | 3551 | 3536 |
| 30° | 3565 | 3429 | 3442 |
| 35° | 3457 | 3315 | 3354 |
| 40° | 3332 | 3193 | 3273 |
| 45° | 3192 | 3072 | 3180 |
| 50° | 3044 | 2942 | 3085 |
| 55° | 2873 | 2788 | 2978 |
| 60° | 2661 | 2610 | 2877 |
| 65° | 2418 | 2373 | 2646 |
| 70° | 2094 | 2117 | 2315 |
| 75° | 1666 | 1770 | 1833 |
| 80° | 1147 | 1323 | 1390 |
| 85° | 639  | 982  | 1247 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 3192 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 136.1  | 3.9       |
| 10°-20°   | 380.4  | 10.9      |
| 20°-30°   | 554.1  | 15.9      |
| 30°-40°   | 639.3  | 18.3      |
| 40°-50°   | 634.3  | 18.2      |
| 50°-60°   | 544.0  | 15.6      |
| 60°-70°   | 382.0  | 10.9      |
| 70°-80°   | 181.1  | 5.2       |
| 80°-90°   | 37.7   | 1.1       |
| 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°    | 1070.6 | 30.7      |
| 0°-40°    | 1709.9 | 49.0      |
| 0°-60°    | 2888.2 | 82.8      |
| 0°-90°    | 3489.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3489.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1449 | 1449  | 1449 | 1449  | 1449 |      |
| 5°  | 1444 | 1443  | 1439 | 1430  | 1433 | 137  |
| 15° | 1372 | 1366  | 1348 | 1334  | 1337 | 387  |
| 25° | 1235 | 1220  | 1196 | 1186  | 1191 | 568  |
| 35° | 1052 | 1032  | 1009 | 1012  | 1021 | 657  |
| 45° | 839  | 821   | 807  | 824   | 836  | 647  |
| 55° | 612  | 596   | 594  | 618   | 635  | 547  |
| 65° | 380  | 367   | 373  | 403   | 416  | 376  |
| 75° | 160  | 155   | 170  | 178   | 176  | 173  |
| 85° | 21   | 25    | 32   | 38    | 40   | 29   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1449.4 | 1449.4 | 1449.4 | 1449.4 | 1449.4 |
| 2.5°  | 1451.1 | 1452.1 | 1449.4 | 1439.0 | 1440.5 |
| 5°    | 1444.2 | 1442.9 | 1439.1 | 1430.1 | 1433.1 |
| 7.5°  | 1432.6 | 1430.8 | 1424.0 | 1413.5 | 1415.6 |
| 10°   | 1417.1 | 1413.6 | 1403.6 | 1390.7 | 1392.8 |
| 12.5° | 1397.1 | 1392.6 | 1378.8 | 1364.6 | 1367.0 |
| 15°   | 1372.1 | 1365.5 | 1348.2 | 1334.0 | 1336.6 |
| 17.5° | 1343.2 | 1336.3 | 1315.5 | 1300.1 | 1305.3 |
| 20°   | 1310.6 | 1300.8 | 1277.2 | 1263.3 | 1268.2 |
| 22.5° | 1274.8 | 1262.4 | 1238.0 | 1225.1 | 1229.5 |
| 25°   | 1235.4 | 1220.1 | 1195.8 | 1185.9 | 1191.0 |
| 27.5° | 1192.7 | 1176.2 | 1151.8 | 1143.3 | 1150.4 |
| 30°   | 1147.4 | 1129.7 | 1103.6 | 1099.9 | 1107.7 |
| 32.5° | 1101.0 | 1082.2 | 1056.9 | 1056.9 | 1064.8 |
| 35°   | 1052.2 | 1031.7 | 1009.0 | 1011.5 | 1021.1 |
| 37.5° | 999.9  | 980.6  | 958.5  | 967.6  | 976.7  |
| 40°   | 948.5  | 928.3  | 909.0  | 921.1  | 931.6  |
| 42.5° | 894.8  | 875.6  | 858.8  | 872.9  | 885.2  |
| 45°   | 838.7  | 821.1  | 807.3  | 823.8  | 835.7  |
| 47.5° | 782.7  | 765.0  | 755.4  | 773.7  | 787.3  |
| 50°   | 727.2  | 710.4  | 702.8  | 723.5  | 736.8  |
| 52.5° | 669.1  | 653.0  | 649.6  | 671.0  | 687.0  |
| 55°   | 612.3  | 595.9  | 594.3  | 618.4  | 634.8  |
| 57.5° | 553.9  | 541.3  | 540.3  | 566.8  | 586.7  |
| 60°   | 494.4  | 481.9  | 485.0  | 516.4  | 534.5  |
| 62.5° | 436.6  | 424.1  | 428.0  | 462.9  | 474.9  |
| 65°   | 379.7  | 367.1  | 372.7  | 402.6  | 415.6  |
| 67.5° | 323.6  | 311.7  | 321.9  | 349.1  | 357.3  |
| 70°   | 266.1  | 255.7  | 269.1  | 291.1  | 294.2  |
| 72.5° | 212.5  | 203.4  | 219.6  | 233.5  | 233.2  |
| 75°   | 160.2  | 155.0  | 170.2  | 177.9  | 176.3  |
| 77.5° | 114.5  | 111.8  | 124.9  | 128.8  | 127.6  |
| 80°   | 74.0   | 75.7   | 85.4   | 88.0   | 89.7   |
| 82.5° | 43.0   | 46.4   | 53.8   | 61.8   | 63.5   |
| 85°   | 20.7   | 24.8   | 31.8   | 37.9   | 40.4   |
| 87.5° | 7.2    | 10.0   | 13.2   | 14.6   | 14.2   |
| 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 | 15.50            | 17.09 | 15.87 | 17.40 | 17.71 | 15.85          | 17.43 | 16.21 | 17.75 | 18.06 |
|                 | 3H   | 16.94            | 18.36 | 17.32 | 18.69 | 19.05 | 17.44          | 18.87 | 17.82 | 19.19 | 19.55 |
|                 | 4H   | 17.36            | 18.70 | 17.76 | 19.05 | 19.42 | 17.90          | 19.24 | 18.30 | 19.58 | 19.96 |
|                 | 6H   | 17.57            | 18.81 | 17.99 | 19.18 | 19.57 | 18.15          | 19.38 | 18.56 | 19.75 | 20.14 |
|                 | 8H   | 17.61            | 18.79 | 18.03 | 19.17 | 19.57 | 18.21          | 19.39 | 18.64 | 19.78 | 20.18 |
|                 | 12H  | 17.61            | 18.74 | 18.04 | 19.12 | 19.55 | 18.26          | 19.39 | 18.69 | 19.77 | 20.20 |
| 4H              | 2H   | 16.04            | 17.37 | 16.43 | 17.72 | 18.10 | 16.32          | 17.66 | 16.72 | 18.00 | 18.38 |
|                 | 3H   | 17.66            | 18.77 | 18.07 | 19.17 | 19.57 | 18.11          | 19.22 | 18.52 | 19.62 | 20.02 |
|                 | 4H   | 18.16            | 19.16 | 18.59 | 19.58 | 20.01 | 18.68          | 19.68 | 19.11 | 20.09 | 20.53 |
|                 | 6H   | 18.45            | 19.32 | 18.91 | 19.77 | 20.22 | 19.01          | 19.89 | 19.47 | 20.33 | 20.79 |
|                 | 8H   | 18.50            | 19.32 | 18.96 | 19.76 | 20.23 | 19.11          | 19.93 | 19.57 | 20.37 | 20.84 |
|                 | 12H  | 18.52            | 19.25 | 19.00 | 19.73 | 20.20 | 19.19          | 19.92 | 19.67 | 20.40 | 20.87 |
| 8H              | 4H   | 18.38            | 19.19 | 18.84 | 19.63 | 20.10 | 18.84          | 19.66 | 19.31 | 20.10 | 20.57 |
|                 | 6H   | 18.73            | 19.40 | 19.23 | 19.89 | 20.37 | 19.25          | 19.93 | 19.75 | 20.42 | 20.89 |
|                 | 8H   | 18.81            | 19.42 | 19.32 | 19.92 | 20.41 | 19.40          | 20.00 | 19.91 | 20.51 | 21.00 |
|                 | 12H  | 18.86            | 19.39 | 19.37 | 19.89 | 20.45 | 19.53          | 20.06 | 20.04 | 20.55 | 21.12 |
| 12H             | 4H   | 18.38            | 19.11 | 18.86 | 19.59 | 20.06 | 18.84          | 19.57 | 19.32 | 20.05 | 20.52 |
|                 | 6H   | 18.74            | 19.35 | 19.26 | 19.86 | 20.34 | 19.26          | 19.86 | 19.77 | 20.37 | 20.85 |
|                 | 8H   | 18.87            | 19.40 | 19.37 | 19.89 | 20.45 | 19.44          | 19.97 | 19.95 | 20.46 | 21.03 |