

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: P1498301

Luminaire Tested: MAE-G-2-120-1STD-STD-40-90-WDDCPH

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498301  
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-STD-40-90-WDDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient , STD exam illumination levels  
Light Source: -  
Ballast/Driver: -

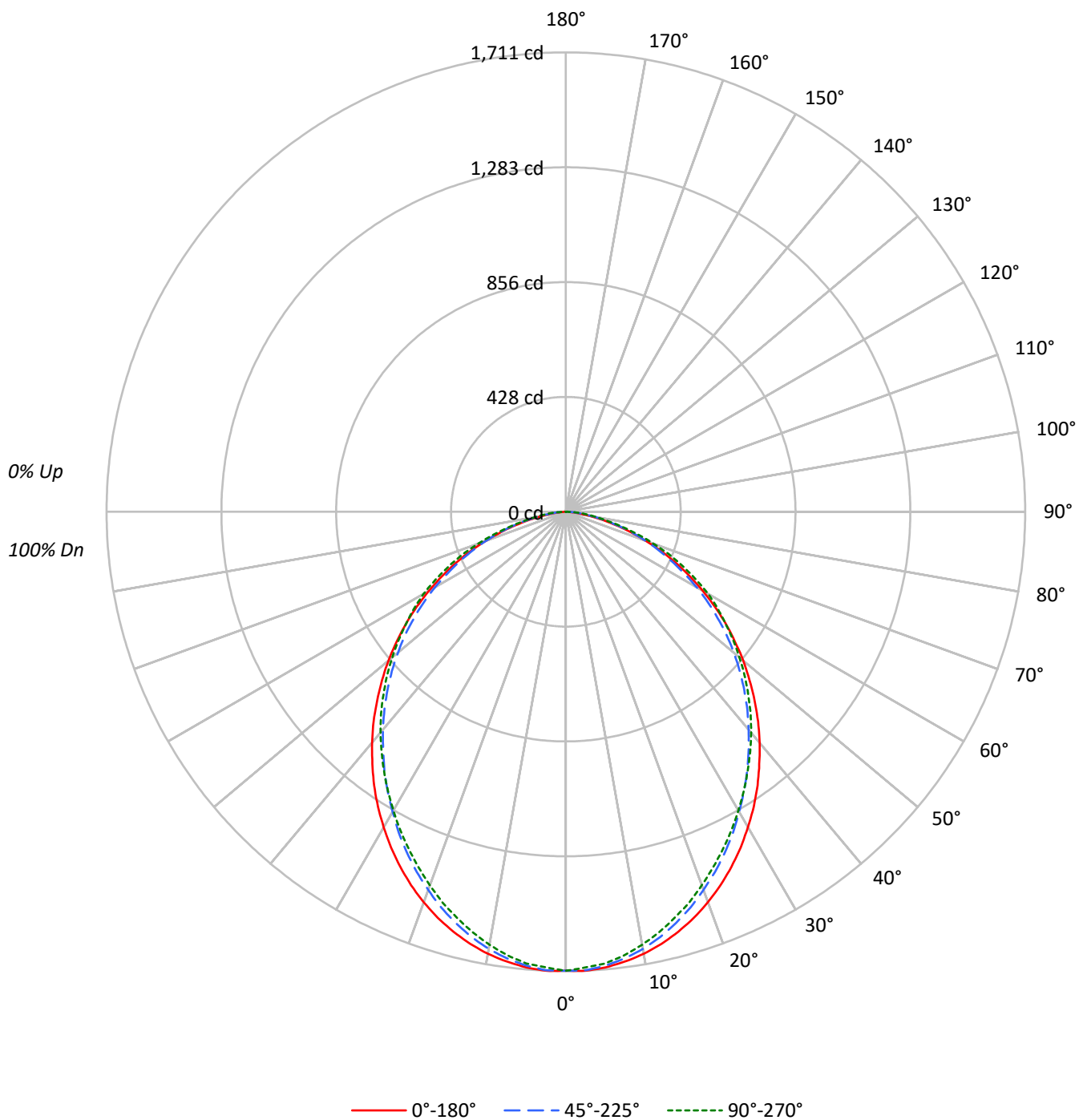
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4088.0 lumens  
Efficiency: N/A  
Efficacy: 78.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 52.2  
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 | 97  | 107 | 103 | 99  | 96  | 99  | 96  | 93  |  | 95  | 92  | 90  |  | 91  |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 78  |  | 84  | 79  | 76  |  | 81  |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  |  | 74  | 69  | 65  |  | 72  |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 56  |  | 66  | 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  | 29  |  | 39  | 33  | 28  |  | 38  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4600 | 4600 | 4600 |
| 5°  | 4602 | 4583 | 4561 |
| 10° | 4568 | 4518 | 4474 |
| 15° | 4511 | 4416 | 4362 |
| 20° | 4432 | 4292 | 4240 |
| 25° | 4333 | 4159 | 4114 |
| 30° | 4216 | 4010 | 3992 |
| 35° | 4090 | 3869 | 3878 |
| 40° | 3945 | 3721 | 3772 |
| 45° | 3784 | 3576 | 3655 |
| 50° | 3612 | 3420 | 3533 |
| 55° | 3412 | 3239 | 3405 |
| 60° | 3166 | 3031 | 3292 |
| 65° | 2882 | 2763 | 3064 |
| 70° | 2501 | 2485 | 2736 |
| 75° | 1996 | 2119 | 2255 |
| 80° | 1381 | 1641 | 1795 |
| 85° | 775  | 1257 | 1636 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3784 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 160.4  | 3.9       |
| 10°-20°   | 447.2  | 10.9      |
| 20°-30°   | 649.4  | 15.9      |
| 30°-40°   | 747.2  | 18.3      |
| 40°-50°   | 739.3  | 18.1      |
| 50°-60°   | 632.9  | 15.5      |
| 60°-70°   | 446.6  | 10.9      |
| 70°-80°   | 217.5  | 5.3       |
| 80°-90°   | 47.6   | 1.2       |
| 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°    | 1257.0 | 30.7      |
| 0°-40°    | 2004.1 | 49.0      |
| 0°-60°    | 3376.4 | 82.6      |
| 0°-90°    | 4088.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4088.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1709 | 1709  | 1709 | 1709  | 1709 |      |
| 5°  | 1704 | 1702  | 1697 | 1685  | 1689 | 162  |
| 15° | 1619 | 1610  | 1585 | 1564  | 1566 | 456  |
| 25° | 1460 | 1438  | 1401 | 1382  | 1386 | 672  |
| 35° | 1245 | 1215  | 1178 | 1173  | 1181 | 778  |
| 45° | 994  | 967   | 940  | 950   | 960  | 767  |
| 55° | 727  | 702   | 690  | 710   | 726  | 649  |
| 65° | 453  | 433   | 434  | 467   | 481  | 448  |
| 75° | 192  | 184   | 204  | 217   | 217  | 207  |
| 85° | 25   | 31    | 41   | 49    | 53   | 35   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1709.4 | 1709.4 | 1709.4 | 1709.4 | 1709.4 |
| 2.5°  | 1711.3 | 1712.7 | 1709.4 | 1696.5 | 1698.7 |
| 5°    | 1703.5 | 1702.0 | 1696.8 | 1684.7 | 1688.6 |
| 7.5°  | 1689.9 | 1687.5 | 1678.2 | 1663.8 | 1666.3 |
| 10°   | 1671.8 | 1667.1 | 1653.3 | 1635.3 | 1637.4 |
| 12.5° | 1648.4 | 1642.0 | 1622.6 | 1602.1 | 1604.3 |
| 15°   | 1619.2 | 1610.0 | 1585.3 | 1563.7 | 1565.8 |
| 17.5° | 1585.6 | 1575.1 | 1545.1 | 1521.7 | 1526.4 |
| 20°   | 1547.6 | 1533.4 | 1498.8 | 1476.5 | 1480.6 |
| 22.5° | 1505.7 | 1487.9 | 1451.6 | 1430.0 | 1433.2 |
| 25°   | 1459.5 | 1437.9 | 1400.6 | 1382.1 | 1385.7 |
| 27.5° | 1409.8 | 1386.0 | 1347.6 | 1330.5 | 1336.4 |
| 30°   | 1356.8 | 1331.1 | 1290.4 | 1278.5 | 1284.7 |
| 32.5° | 1302.2 | 1275.0 | 1234.9 | 1226.9 | 1233.2 |
| 35°   | 1245.0 | 1215.3 | 1177.8 | 1172.7 | 1180.6 |
| 37.5° | 1183.7 | 1155.1 | 1118.0 | 1120.1 | 1127.5 |
| 40°   | 1123.1 | 1093.4 | 1059.4 | 1064.9 | 1073.9 |
| 42.5° | 1059.8 | 1031.3 | 1000.2 | 1008.1 | 1018.6 |
| 45°   | 994.2  | 966.9  | 939.6  | 950.3  | 960.3  |
| 47.5° | 928.1  | 901.1  | 878.7  | 891.5  | 903.5  |
| 50°   | 862.7  | 836.7  | 816.9  | 832.6  | 843.8  |
| 52.5° | 793.8  | 769.1  | 754.8  | 771.3  | 785.9  |
| 55°   | 727.2  | 702.0  | 690.4  | 710.2  | 725.7  |
| 57.5° | 658.3  | 637.6  | 627.5  | 651.0  | 670.4  |
| 60°   | 588.3  | 567.9  | 563.2  | 593.2  | 611.7  |
| 62.5° | 520.0  | 499.9  | 497.5  | 532.9  | 546.3  |
| 65°   | 452.6  | 432.9  | 433.9  | 466.7  | 481.2  |
| 67.5° | 385.9  | 367.8  | 375.5  | 407.3  | 417.0  |
| 70°   | 317.9  | 301.8  | 315.9  | 342.8  | 347.7  |
| 72.5° | 254.1  | 240.5  | 259.9  | 278.9  | 280.2  |
| 75°   | 192.0  | 183.7  | 203.8  | 216.6  | 216.9  |
| 77.5° | 137.5  | 133.1  | 151.8  | 160.6  | 161.2  |
| 80°   | 89.1   | 91.2   | 105.9  | 112.9  | 115.8  |
| 82.5° | 52.0   | 56.6   | 68.3   | 79.6   | 82.8   |
| 85°   | 25.1   | 30.6   | 40.7   | 49.4   | 53.0   |
| 87.5° | 8.7    | 12.4   | 17.0   | 18.9   | 18.4   |
| 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 | 16.10            | 17.69 | 16.47 | 18.00 | 18.31 | 16.25          | 17.84 | 16.62 | 18.15 | 18.47 |
|                 | 3H   | 17.55            | 18.98 | 17.93 | 19.30 | 19.67 | 17.90          | 19.33 | 18.28 | 19.66 | 20.02 |
|                 | 4H   | 17.98            | 19.32 | 18.38 | 19.67 | 20.05 | 18.41          | 19.75 | 18.81 | 20.10 | 20.47 |
|                 | 6H   | 18.20            | 19.44 | 18.61 | 19.81 | 20.20 | 18.71          | 19.95 | 19.12 | 20.31 | 20.71 |
|                 | 8H   | 18.24            | 19.42 | 18.66 | 19.81 | 20.21 | 18.80          | 19.98 | 19.23 | 20.37 | 20.77 |
|                 | 12H  | 18.24            | 19.37 | 18.67 | 19.75 | 20.18 | 18.86          | 19.99 | 19.29 | 20.38 | 20.80 |
| 4H              | 2H   | 16.62            | 17.95 | 17.01 | 18.30 | 18.68 | 16.74          | 18.08 | 17.14 | 18.43 | 18.80 |
|                 | 3H   | 18.25            | 19.37 | 18.66 | 19.77 | 20.17 | 18.59          | 19.71 | 19.00 | 20.11 | 20.51 |
|                 | 4H   | 18.77            | 19.77 | 19.20 | 20.18 | 20.62 | 19.21          | 20.22 | 19.65 | 20.63 | 21.07 |
|                 | 6H   | 19.07            | 19.94 | 19.52 | 20.38 | 20.84 | 19.62          | 20.49 | 20.07 | 20.93 | 21.39 |
|                 | 8H   | 19.12            | 19.94 | 19.59 | 20.38 | 20.85 | 19.74          | 20.56 | 20.21 | 21.00 | 21.47 |
|                 | 12H  | 19.15            | 19.88 | 19.63 | 20.35 | 20.82 | 19.84          | 20.57 | 20.32 | 21.05 | 21.52 |
| 8H              | 4H   | 18.99            | 19.81 | 19.45 | 20.25 | 20.72 | 19.40          | 20.21 | 19.86 | 20.66 | 21.12 |
|                 | 6H   | 19.36            | 20.04 | 19.86 | 20.53 | 21.00 | 19.88          | 20.56 | 20.38 | 21.05 | 21.52 |
|                 | 8H   | 19.45            | 20.05 | 19.96 | 20.56 | 21.05 | 20.06          | 20.67 | 20.57 | 21.18 | 21.66 |
|                 | 12H  | 19.50            | 20.04 | 20.01 | 20.53 | 21.09 | 20.22          | 20.76 | 20.73 | 21.25 | 21.81 |
| 12H             | 4H   | 19.00            | 19.74 | 19.49 | 20.21 | 20.68 | 19.40          | 20.13 | 19.88 | 20.61 | 21.08 |
|                 | 6H   | 19.38            | 19.99 | 19.89 | 20.50 | 20.98 | 19.89          | 20.49 | 20.40 | 21.00 | 21.49 |
|                 | 8H   | 19.51            | 20.05 | 20.02 | 20.54 | 21.10 | 20.11          | 20.65 | 20.62 | 21.14 | 21.70 |