

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: P1498115

Luminaire Tested: MAE-G-2-120-1HI-STD-50-90-WDDCPH

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498115  
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-2-120-1HI-STD-50-90-WDDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 HI ambient , STD exam illumination levels  
Light Source: -  
Ballast/Driver: -

**Summary**

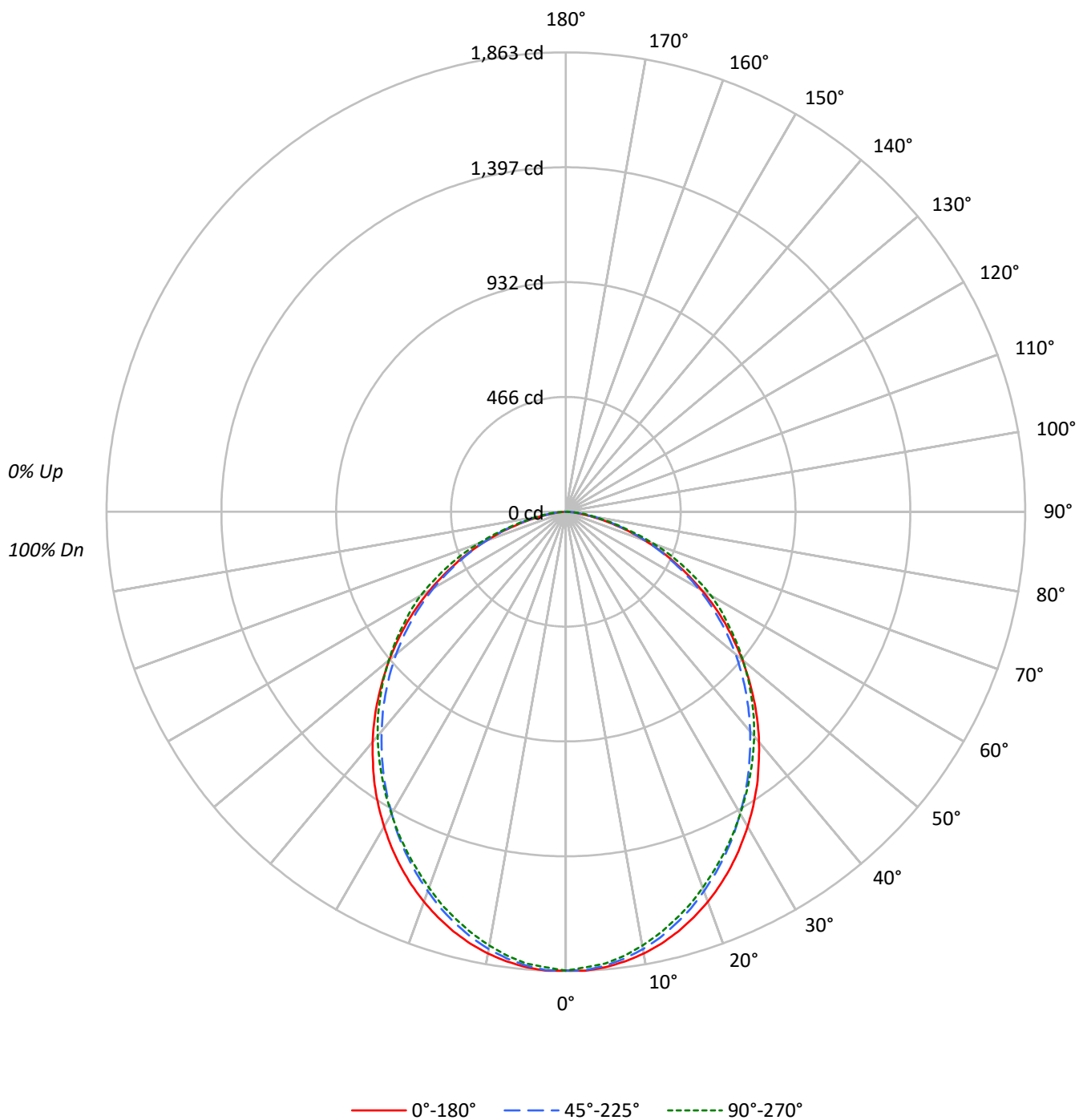
Lumens per Lamp: N/A  
Luminaire Lumens: 4470.0 lumens  
Efficiency: N/A  
Efficacy: 77.9 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 57.4  
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  | 84  | 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  |  | 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°  | 5007 | 5007 | 5007 |
| 5°  | 5008 | 4990 | 4968 |
| 10° | 4971 | 4921 | 4881 |
| 15° | 4908 | 4817 | 4771 |
| 20° | 4820 | 4688 | 4648 |
| 25° | 4711 | 4548 | 4521 |
| 30° | 4580 | 4391 | 4396 |
| 35° | 4442 | 4242 | 4280 |
| 40° | 4282 | 4084 | 4173 |
| 45° | 4104 | 3928 | 4051 |
| 50° | 3914 | 3761 | 3925 |
| 55° | 3696 | 3563 | 3788 |
| 60° | 3425 | 3335 | 3660 |
| 65° | 3113 | 3035 | 3378 |
| 70° | 2698 | 2714 | 2974 |
| 75° | 2149 | 2282 | 2383 |
| 80° | 1481 | 1725 | 1835 |
| 85° | 827  | 1291 | 1655 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4104 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 174.7  | 3.9       |
| 10°-20°   | 487.8  | 10.9      |
| 20°-30°   | 709.9  | 15.9      |
| 30°-40°   | 818.4  | 18.3      |
| 40°-50°   | 811.4  | 18.2      |
| 50°-60°   | 695.5  | 15.6      |
| 60°-70°   | 489.1  | 10.9      |
| 70°-80°   | 233.8  | 5.2       |
| 80°-90°   | 49.4   | 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°    | 1372.4 | 30.7      |
| 0°-40°    | 2190.9 | 49.0      |
| 0°-60°    | 3697.7 | 82.7      |
| 0°-90°    | 4470.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4470.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1861 | 1861  | 1861 | 1861  | 1861 |      |
| 5°  | 1854 | 1852  | 1847 | 1835  | 1839 | 176  |
| 15° | 1762 | 1753  | 1729 | 1709  | 1712 | 496  |
| 25° | 1587 | 1566  | 1532 | 1517  | 1523 | 730  |
| 35° | 1352 | 1324  | 1291 | 1292  | 1303 | 845  |
| 45° | 1078 | 1054  | 1032 | 1051  | 1064 | 832  |
| 55° | 788  | 765   | 759  | 788   | 807  | 703  |
| 65° | 489  | 471   | 477  | 514   | 530  | 484  |
| 75° | 207  | 199   | 220  | 230   | 229  | 223  |
| 85° | 27   | 32    | 42   | 50    | 54   | 38   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1860.6 | 1860.6 | 1860.6 | 1860.6 | 1860.6 |
| 2.5°  | 1862.7 | 1864.1 | 1860.6 | 1847.1 | 1849.0 |
| 5°    | 1854.0 | 1852.3 | 1847.2 | 1835.1 | 1839.2 |
| 7.5°  | 1839.0 | 1836.7 | 1827.5 | 1813.5 | 1816.1 |
| 10°   | 1819.3 | 1814.6 | 1801.1 | 1783.7 | 1786.3 |
| 12.5° | 1793.7 | 1787.6 | 1768.8 | 1749.4 | 1752.3 |
| 15°   | 1761.6 | 1752.8 | 1729.0 | 1709.2 | 1712.4 |
| 17.5° | 1724.8 | 1715.0 | 1686.6 | 1665.2 | 1671.3 |
| 20°   | 1683.1 | 1669.7 | 1637.1 | 1617.3 | 1623.0 |
| 22.5° | 1637.1 | 1620.2 | 1586.5 | 1567.8 | 1572.8 |
| 25°   | 1586.7 | 1566.0 | 1531.8 | 1516.9 | 1522.7 |
| 27.5° | 1532.1 | 1509.4 | 1475.0 | 1461.8 | 1470.0 |
| 30°   | 1474.1 | 1449.8 | 1413.0 | 1405.8 | 1414.8 |
| 32.5° | 1414.5 | 1388.9 | 1352.9 | 1350.3 | 1359.4 |
| 35°   | 1352.1 | 1323.9 | 1291.3 | 1291.9 | 1303.0 |
| 37.5° | 1285.0 | 1258.3 | 1226.4 | 1235.1 | 1245.8 |
| 40°   | 1219.0 | 1191.2 | 1162.7 | 1175.3 | 1187.8 |
| 42.5° | 1150.2 | 1123.7 | 1098.2 | 1113.6 | 1128.0 |
| 45°   | 1078.4 | 1053.5 | 1032.2 | 1050.6 | 1064.5 |
| 47.5° | 1006.4 | 981.6  | 965.7  | 986.4  | 1002.4 |
| 50°   | 935.0  | 911.5  | 898.3  | 921.9  | 937.6  |
| 52.5° | 860.4  | 837.9  | 830.1  | 854.8  | 873.9  |
| 55°   | 787.7  | 764.7  | 759.4  | 787.5  | 807.3  |
| 57.5° | 712.6  | 694.6  | 690.3  | 721.9  | 746.1  |
| 60°   | 636.4  | 618.4  | 619.7  | 657.8  | 680.1  |
| 62.5° | 562.2  | 544.3  | 547.1  | 589.9  | 605.1  |
| 65°   | 488.9  | 471.2  | 476.6  | 514.1  | 530.5  |
| 67.5° | 416.8  | 400.2  | 411.9  | 446.6  | 457.3  |
| 70°   | 342.9  | 328.3  | 344.9  | 373.5  | 378.0  |
| 72.5° | 273.9  | 261.4  | 282.3  | 300.9  | 301.0  |
| 75°   | 206.7  | 199.3  | 219.5  | 230.5  | 229.2  |
| 77.5° | 147.8  | 143.9  | 161.8  | 168.2  | 167.2  |
| 80°   | 95.6   | 97.8   | 111.3  | 115.9  | 118.4  |
| 82.5° | 55.7   | 60.3   | 70.6   | 81.5   | 84.1   |
| 85°   | 26.8   | 32.3   | 41.8   | 50.3   | 53.6   |
| 87.5° | 9.3    | 13.0   | 17.3   | 19.2   | 18.7   |
| 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 | 16.38            | 17.96 | 16.74 | 18.28 | 18.59 | 16.67          | 18.25 | 17.03 | 18.56 | 18.88 |
|                 | 3H   | 17.82            | 19.24 | 18.20 | 19.57 | 19.93 | 18.28          | 19.70 | 18.65 | 20.03 | 20.39 |
|                 | 4H   | 18.24            | 19.58 | 18.64 | 19.93 | 20.31 | 18.75          | 20.09 | 19.15 | 20.43 | 20.81 |
|                 | 6H   | 18.46            | 19.70 | 18.87 | 20.06 | 20.45 | 19.01          | 20.25 | 19.42 | 20.61 | 21.00 |
|                 | 8H   | 18.49            | 19.67 | 18.92 | 20.06 | 20.46 | 19.08          | 20.26 | 19.51 | 20.65 | 21.05 |
|                 | 12H  | 18.50            | 19.62 | 18.93 | 20.01 | 20.44 | 19.13          | 20.26 | 19.56 | 20.65 | 21.07 |
| 4H              | 2H   | 16.91            | 18.24 | 17.30 | 18.59 | 18.97 | 17.14          | 18.48 | 17.54 | 18.83 | 19.20 |
|                 | 3H   | 18.53            | 19.64 | 18.94 | 20.04 | 20.44 | 18.95          | 20.07 | 19.36 | 20.46 | 20.87 |
|                 | 4H   | 19.04            | 20.04 | 19.47 | 20.45 | 20.89 | 19.53          | 20.54 | 19.96 | 20.95 | 21.39 |
|                 | 6H   | 19.33            | 20.21 | 19.79 | 20.65 | 21.10 | 19.89          | 20.76 | 20.35 | 21.21 | 21.66 |
|                 | 8H   | 19.39            | 20.20 | 19.85 | 20.64 | 21.11 | 20.00          | 20.81 | 20.46 | 21.26 | 21.72 |
|                 | 12H  | 19.41            | 20.14 | 19.89 | 20.61 | 21.08 | 20.08          | 20.81 | 20.56 | 21.29 | 21.76 |
| 8H              | 4H   | 19.26            | 20.07 | 19.72 | 20.52 | 20.98 | 19.70          | 20.52 | 20.17 | 20.96 | 21.43 |
|                 | 6H   | 19.62            | 20.29 | 20.11 | 20.78 | 21.26 | 20.14          | 20.81 | 20.63 | 21.30 | 21.78 |
|                 | 8H   | 19.70            | 20.30 | 20.21 | 20.81 | 21.30 | 20.29          | 20.90 | 20.80 | 21.40 | 21.89 |
|                 | 12H  | 19.75            | 20.28 | 20.26 | 20.77 | 21.34 | 20.43          | 20.96 | 20.94 | 21.46 | 22.02 |
| 12H             | 4H   | 19.27            | 20.00 | 19.75 | 20.47 | 20.94 | 19.70          | 20.43 | 20.18 | 20.91 | 21.38 |
|                 | 6H   | 19.63            | 20.24 | 20.14 | 20.74 | 21.23 | 20.14          | 20.74 | 20.65 | 21.25 | 21.74 |
|                 | 8H   | 19.76            | 20.29 | 20.26 | 20.78 | 21.34 | 20.34          | 20.87 | 20.84 | 21.36 | 21.92 |