

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: P1498099

Luminaire Tested: MAE-G-2-120-1HI-STD-30-VRDCPH

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498099  
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-30-VRDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient , STD exam illumination levels  
Light Source: -  
Ballast/Driver: -

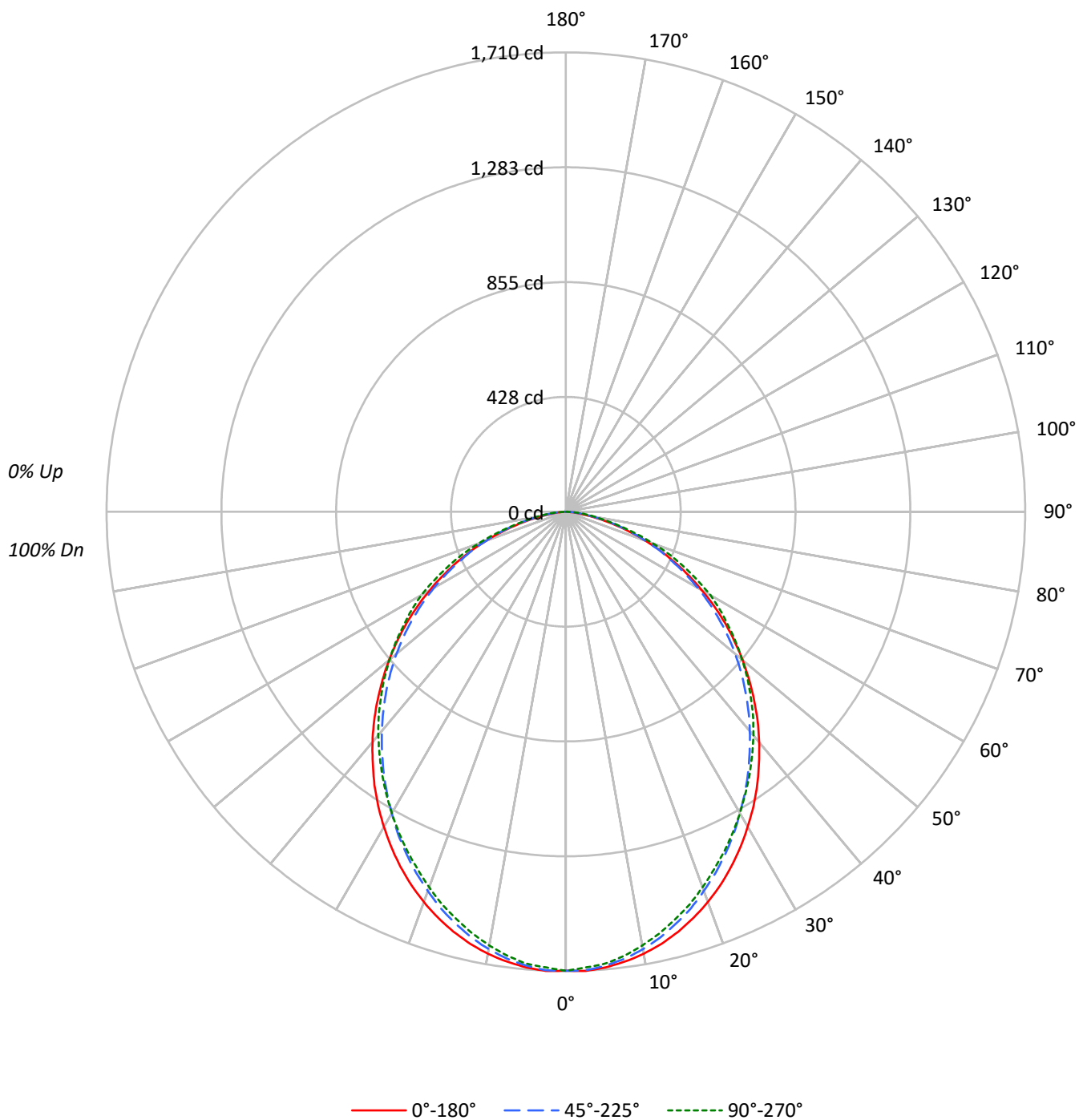
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4099.9 lumens  
Efficiency: N/A  
Efficacy: 71.4 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 | 97  | 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  | 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°  | 4598 | 4598 | 4598 |
| 5°  | 4599 | 4582 | 4561 |
| 10° | 4565 | 4518 | 4479 |
| 15° | 4507 | 4421 | 4375 |
| 20° | 4427 | 4302 | 4260 |
| 25° | 4328 | 4172 | 4142 |
| 30° | 4208 | 4026 | 4025 |
| 35° | 4081 | 3888 | 3917 |
| 40° | 3935 | 3743 | 3816 |
| 45° | 3772 | 3599 | 3703 |
| 50° | 3599 | 3445 | 3586 |
| 55° | 3398 | 3263 | 3459 |
| 60° | 3150 | 3054 | 3343 |
| 65° | 2865 | 2780 | 3092 |
| 70° | 2483 | 2489 | 2732 |
| 75° | 1980 | 2101 | 2205 |
| 80° | 1365 | 1598 | 1712 |
| 85° | 763  | 1201 | 1550 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3772 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 160.4  | 3.9       |
| 10°-20°   | 447.7  | 10.9      |
| 20°-30°   | 651.2  | 15.9      |
| 30°-40°   | 750.3  | 18.3      |
| 40°-50°   | 743.5  | 18.1      |
| 50°-60°   | 637.1  | 15.5      |
| 60°-70°   | 448.4  | 10.9      |
| 70°-80°   | 215.4  | 5.3       |
| 80°-90°   | 45.9   | 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°    | 1259.3 | 30.7      |
| 0°-40°    | 2009.6 | 49.0      |
| 0°-60°    | 3390.3 | 82.7      |
| 0°-90°    | 4099.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4099.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1708 | 1708  | 1708 | 1708  | 1708 |      |
| 5°  | 1702 | 1701  | 1696 | 1685  | 1688 | 161  |
| 15° | 1618 | 1610  | 1587 | 1568  | 1570 | 456  |
| 25° | 1458 | 1438  | 1405 | 1390  | 1395 | 671  |
| 35° | 1242 | 1216  | 1184 | 1183  | 1192 | 776  |
| 45° | 991  | 967   | 946  | 961   | 973  | 765  |
| 55° | 724  | 702   | 696  | 720   | 737  | 646  |
| 65° | 450  | 433   | 437  | 471   | 486  | 445  |
| 75° | 190  | 183   | 202  | 213   | 212  | 206  |
| 85° | 25   | 30    | 39   | 47    | 50   | 35   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1708.5 | 1708.5 | 1708.5 | 1708.5 | 1708.5 |
| 2.5°  | 1710.5 | 1711.8 | 1708.5 | 1696.0 | 1697.9 |
| 5°    | 1702.5 | 1701.0 | 1696.2 | 1684.8 | 1688.5 |
| 7.5°  | 1688.9 | 1686.7 | 1678.0 | 1664.7 | 1667.1 |
| 10°   | 1670.7 | 1666.3 | 1653.6 | 1637.1 | 1639.3 |
| 12.5° | 1647.3 | 1641.5 | 1623.6 | 1605.1 | 1607.6 |
| 15°   | 1617.9 | 1609.5 | 1587.0 | 1567.8 | 1570.5 |
| 17.5° | 1584.1 | 1574.8 | 1547.6 | 1527.0 | 1532.5 |
| 20°   | 1545.8 | 1533.1 | 1502.1 | 1482.8 | 1487.7 |
| 22.5° | 1503.8 | 1487.7 | 1455.3 | 1437.1 | 1441.3 |
| 25°   | 1457.5 | 1437.8 | 1405.0 | 1390.0 | 1395.0 |
| 27.5° | 1407.5 | 1385.9 | 1352.6 | 1339.1 | 1346.3 |
| 30°   | 1354.3 | 1331.1 | 1295.6 | 1287.6 | 1295.4 |
| 32.5° | 1299.6 | 1275.1 | 1240.3 | 1236.5 | 1244.3 |
| 35°   | 1242.2 | 1215.5 | 1183.6 | 1182.7 | 1192.4 |
| 37.5° | 1180.8 | 1155.3 | 1123.9 | 1130.5 | 1139.6 |
| 40°   | 1120.1 | 1093.6 | 1065.4 | 1075.5 | 1086.3 |
| 42.5° | 1057.0 | 1031.5 | 1006.3 | 1018.8 | 1031.3 |
| 45°   | 991.1  | 967.2  | 945.6  | 961.0  | 973.1  |
| 47.5° | 925.1  | 901.2  | 884.7  | 902.0  | 916.1  |
| 50°   | 859.6  | 836.8  | 822.8  | 843.0  | 856.5  |
| 52.5° | 790.9  | 769.3  | 760.3  | 781.3  | 798.1  |
| 55°   | 724.2  | 702.1  | 695.5  | 719.8  | 737.3  |
| 57.5° | 655.3  | 637.7  | 632.2  | 659.8  | 681.3  |
| 60°   | 585.3  | 567.8  | 567.5  | 601.1  | 621.1  |
| 62.5° | 517.1  | 499.8  | 501.0  | 539.4  | 553.2  |
| 65°   | 449.9  | 432.7  | 436.6  | 470.7  | 485.6  |
| 67.5° | 383.5  | 367.5  | 377.5  | 409.4  | 419.0  |
| 70°   | 315.6  | 301.5  | 316.4  | 342.8  | 347.2  |
| 72.5° | 252.2  | 240.1  | 259.3  | 276.9  | 277.4  |
| 75°   | 190.4  | 183.1  | 202.1  | 213.0  | 212.1  |
| 77.5° | 136.1  | 132.4  | 149.3  | 156.0  | 155.5  |
| 80°   | 88.1   | 90.1   | 103.1  | 108.1  | 110.5  |
| 82.5° | 51.3   | 55.6   | 65.7   | 76.0   | 78.6   |
| 85°   | 24.7   | 29.9   | 38.9   | 46.9   | 50.2   |
| 87.5° | 8.6    | 12.1   | 16.1   | 17.9   | 17.4   |
| 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 | 16.09            | 17.67 | 16.45 | 17.98 | 18.30 | 16.34          | 17.92 | 16.71 | 18.24 | 18.55 |
|                 | 3H   | 17.53            | 18.95 | 17.91 | 19.28 | 19.64 | 17.96          | 19.38 | 18.34 | 19.71 | 20.07 |
|                 | 4H   | 17.96            | 19.29 | 18.35 | 19.64 | 20.02 | 18.44          | 19.78 | 18.84 | 20.13 | 20.50 |
|                 | 6H   | 18.17            | 19.41 | 18.58 | 19.77 | 20.17 | 18.71          | 19.95 | 19.12 | 20.31 | 20.71 |
|                 | 8H   | 18.21            | 19.38 | 18.63 | 19.77 | 20.17 | 18.79          | 19.97 | 19.22 | 20.36 | 20.76 |
|                 | 12H  | 18.21            | 19.34 | 18.64 | 19.72 | 20.15 | 18.84          | 19.97 | 19.27 | 20.36 | 20.78 |
| 4H              | 2H   | 16.61            | 17.95 | 17.01 | 18.30 | 18.67 | 16.82          | 18.16 | 17.22 | 18.50 | 18.88 |
|                 | 3H   | 18.24            | 19.35 | 18.65 | 19.75 | 20.15 | 18.64          | 19.75 | 19.05 | 20.15 | 20.55 |
|                 | 4H   | 18.75            | 19.75 | 19.18 | 20.16 | 20.60 | 19.23          | 20.23 | 19.66 | 20.65 | 21.09 |
|                 | 6H   | 19.04            | 19.92 | 19.50 | 20.36 | 20.82 | 19.60          | 20.47 | 20.06 | 20.91 | 21.37 |
|                 | 8H   | 19.10            | 19.91 | 19.56 | 20.36 | 20.82 | 19.71          | 20.53 | 20.17 | 20.97 | 21.44 |
|                 | 12H  | 19.12            | 19.85 | 19.60 | 20.33 | 20.80 | 19.80          | 20.53 | 20.28 | 21.01 | 21.48 |
| 8H              | 4H   | 18.97            | 19.78 | 19.43 | 20.23 | 20.69 | 19.40          | 20.22 | 19.87 | 20.66 | 21.13 |
|                 | 6H   | 19.33            | 20.00 | 19.82 | 20.49 | 20.97 | 19.85          | 20.53 | 20.35 | 21.01 | 21.49 |
|                 | 8H   | 19.41            | 20.02 | 19.93 | 20.53 | 21.01 | 20.01          | 20.62 | 20.52 | 21.12 | 21.61 |
|                 | 12H  | 19.46            | 20.00 | 19.97 | 20.49 | 21.05 | 20.16          | 20.69 | 20.66 | 21.18 | 21.74 |
| 12H             | 4H   | 18.98            | 19.71 | 19.46 | 20.18 | 20.65 | 19.40          | 20.13 | 19.88 | 20.61 | 21.08 |
|                 | 6H   | 19.35            | 19.95 | 19.86 | 20.46 | 20.95 | 19.85          | 20.46 | 20.37 | 20.97 | 21.45 |
|                 | 8H   | 19.47            | 20.00 | 19.98 | 20.50 | 21.06 | 20.06          | 20.59 | 20.57 | 21.08 | 21.65 |