

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: P1498309

Luminaire Tested: MAE-G-2-120-1STD-STD-50-VRDCPH

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498309  
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-50-VRDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 STD ambient , STD exam illumination levels  
Light Source: -  
Ballast/Driver: -

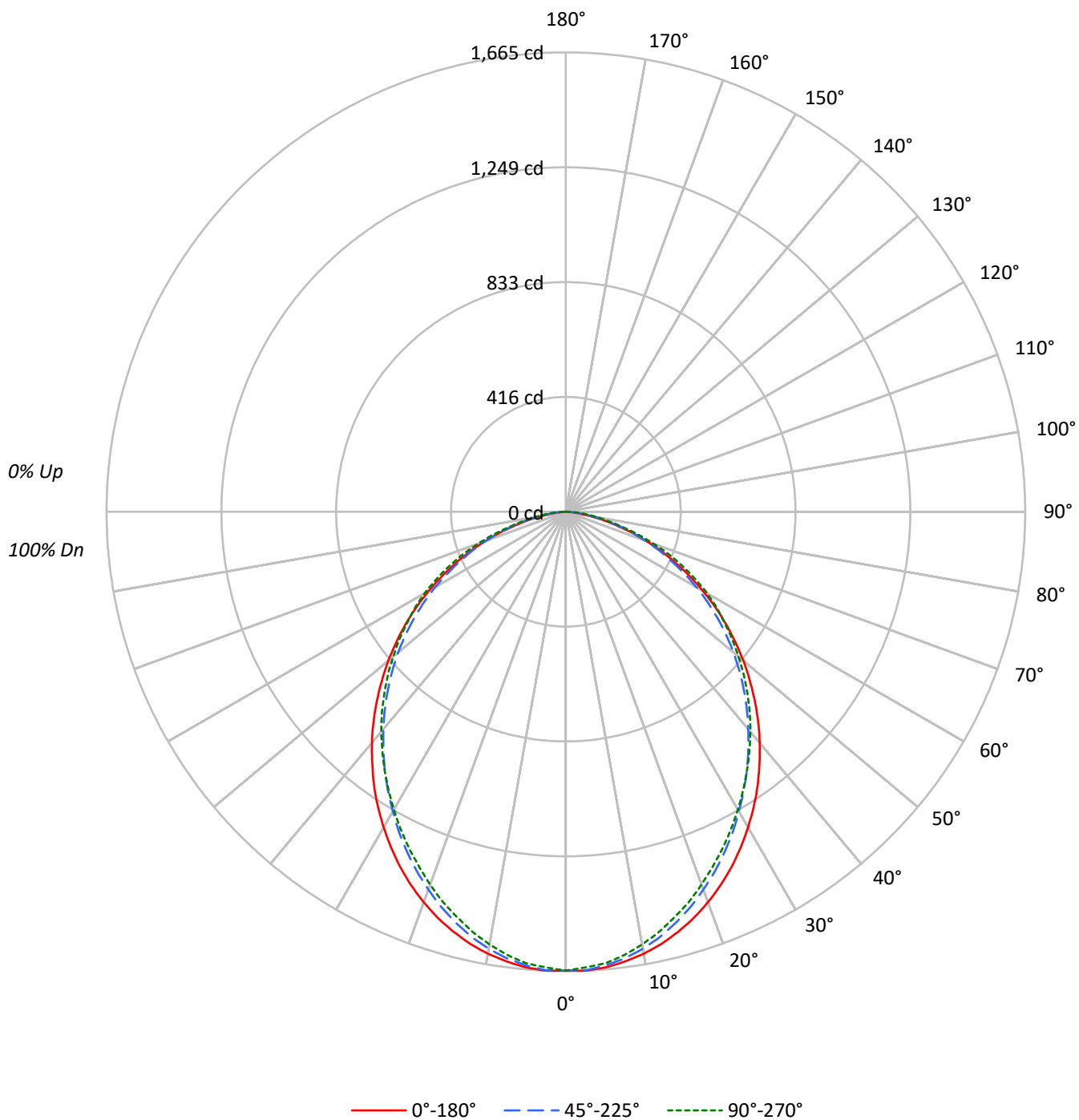
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3973.0 lumens  
Efficiency: N/A  
Efficacy: 76.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.25  
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

TEST NUMBER: P1498309

CATALOG NUMBER: MAE-G-2-120-1STD-STD-50-VRDCPH

### Luminous Intensity Polar Plot



TEST NUMBER: P1498309

CATALOG NUMBER: MAE-G-2-120-1STD-STD-50-VRDCPH

**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   | 109 | 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°  | 4475 | 4475 | 4475 |
| 5°  | 4477 | 4460 | 4437 |
| 10° | 4445 | 4395 | 4351 |
| 15° | 4389 | 4295 | 4240 |
| 20° | 4313 | 4172 | 4118 |
| 25° | 4218 | 4041 | 3994 |
| 30° | 4104 | 3895 | 3873 |
| 35° | 3982 | 3757 | 3760 |
| 40° | 3841 | 3614 | 3656 |
| 45° | 3685 | 3471 | 3540 |
| 50° | 3517 | 3319 | 3420 |
| 55° | 3324 | 3143 | 3294 |
| 60° | 3085 | 2941 | 3186 |
| 65° | 2809 | 2682 | 2971 |
| 70° | 2439 | 2416 | 2663 |
| 75° | 1948 | 2067 | 2209 |
| 80° | 1350 | 1610 | 1773 |
| 85° | 756  | 1238 | 1621 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 3685 cd/sqm

TEST NUMBER: P1498309

CATALOG NUMBER: MAE-G-2-120-1STD-STD-50-VRDCPH

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 156.1  | 3.9       |
| 10°-20°   | 434.8  | 10.9      |
| 20°-30°   | 631.1  | 15.9      |
| 30°-40°   | 725.8  | 18.3      |
| 40°-50°   | 717.9  | 18.1      |
| 50°-60°   | 614.4  | 15.5      |
| 60°-70°   | 433.9  | 10.9      |
| 70°-80°   | 212.3  | 5.3       |
| 80°-90°   | 46.8   | 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°    | 1222.0 | 30.8      |
| 0°-40°    | 1947.9 | 49.0      |
| 0°-60°    | 3280.1 | 82.6      |
| 0°-90°    | 3973.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3973.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1663 | 1663  | 1663 | 1663  | 1663 |      |
| 5°  | 1657 | 1656  | 1651 | 1639  | 1643 | 157  |
| 15° | 1576 | 1566  | 1542 | 1520  | 1522 | 444  |
| 25° | 1420 | 1399  | 1361 | 1342  | 1345 | 654  |
| 35° | 1212 | 1182  | 1144 | 1138  | 1145 | 757  |
| 45° | 968  | 940   | 912  | 921   | 930  | 747  |
| 55° | 708  | 683   | 670  | 688   | 702  | 632  |
| 65° | 441  | 421   | 421  | 453   | 467  | 437  |
| 75° | 187  | 179   | 199  | 212   | 212  | 202  |
| 85° | 24   | 30    | 40   | 49    | 52   | 35   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

TEST NUMBER: P1498309

CATALOG NUMBER: MAE-G-2-120-1STD-STD-50-VRDCPH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1663.1 | 1663.1 | 1663.1 | 1663.1 | 1663.1 |
| 2.5°  | 1665.0 | 1666.4 | 1663.1 | 1650.5 | 1652.7 |
| 5°    | 1657.4 | 1656.0 | 1650.9 | 1638.8 | 1642.6 |
| 7.5°  | 1644.2 | 1641.9 | 1632.7 | 1618.4 | 1620.7 |
| 10°   | 1626.7 | 1622.0 | 1608.3 | 1590.3 | 1592.3 |
| 12.5° | 1603.9 | 1597.6 | 1578.2 | 1557.7 | 1559.7 |
| 15°   | 1575.6 | 1566.5 | 1541.6 | 1519.8 | 1521.8 |
| 17.5° | 1543.0 | 1532.4 | 1502.2 | 1478.5 | 1483.0 |
| 20°   | 1506.1 | 1491.8 | 1457.0 | 1434.4 | 1438.1 |
| 22.5° | 1465.3 | 1447.5 | 1411.0 | 1388.8 | 1391.5 |
| 25°   | 1420.5 | 1398.9 | 1361.1 | 1341.9 | 1345.2 |
| 27.5° | 1372.2 | 1348.4 | 1309.4 | 1291.6 | 1296.8 |
| 30°   | 1320.7 | 1295.0 | 1253.6 | 1240.7 | 1246.4 |
| 32.5° | 1267.7 | 1240.3 | 1199.5 | 1190.4 | 1196.1 |
| 35°   | 1212.0 | 1182.2 | 1143.8 | 1137.6 | 1144.7 |
| 37.5° | 1152.4 | 1123.6 | 1085.8 | 1086.3 | 1092.9 |
| 40°   | 1093.5 | 1063.7 | 1028.7 | 1032.5 | 1040.7 |
| 42.5° | 1032.0 | 1003.2 | 971.0  | 977.3  | 986.8  |
| 45°   | 968.2  | 940.4  | 912.0  | 921.1  | 930.1  |
| 47.5° | 903.9  | 876.5  | 852.9  | 863.9  | 874.9  |
| 50°   | 840.2  | 813.8  | 792.9  | 806.6  | 816.9  |
| 52.5° | 773.2  | 748.1  | 732.4  | 747.1  | 760.6  |
| 55°   | 708.4  | 682.9  | 670.0  | 687.8  | 702.2  |
| 57.5° | 641.3  | 620.2  | 608.8  | 630.5  | 648.6  |
| 60°   | 573.3  | 552.5  | 546.5  | 574.5  | 592.0  |
| 62.5° | 506.8  | 486.4  | 482.9  | 516.3  | 529.2  |
| 65°   | 441.2  | 421.2  | 421.2  | 452.8  | 466.6  |
| 67.5° | 376.2  | 357.9  | 364.8  | 395.5  | 405.0  |
| 70°   | 310.0  | 293.6  | 307.1  | 333.4  | 338.5  |
| 72.5° | 247.8  | 234.1  | 253.0  | 271.9  | 273.5  |
| 75°   | 187.4  | 178.8  | 198.8  | 211.8  | 212.5  |
| 77.5° | 134.1  | 129.7  | 148.5  | 157.7  | 158.7  |
| 80°   | 87.1   | 89.0   | 103.9  | 111.4  | 114.4  |
| 82.5° | 50.9   | 55.5   | 67.2   | 78.6   | 81.8   |
| 85°   | 24.5   | 30.0   | 40.1   | 48.9   | 52.5   |
| 87.5° | 8.4    | 12.1   | 16.7   | 18.6   | 18.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P1498309

CATALOG NUMBER: MAE-G-2-120-1STD-STD-50-VRDCPH

**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 | 16.01            | 17.59 | 16.38 | 17.91 | 18.22 | 16.13          | 17.71 | 16.49 | 18.03 | 18.34 |
|                 | 3H   | 17.46            | 18.89 | 17.84 | 19.22 | 19.58 | 17.79          | 19.21 | 18.17 | 19.54 | 19.90 |
|                 | 4H   | 17.89            | 19.23 | 18.29 | 19.58 | 19.96 | 18.30          | 19.64 | 18.70 | 19.99 | 20.37 |
|                 | 6H   | 18.12            | 19.35 | 18.53 | 19.72 | 20.11 | 18.62          | 19.85 | 19.03 | 20.22 | 20.61 |
|                 | 8H   | 18.15            | 19.33 | 18.58 | 19.72 | 20.12 | 18.71          | 19.89 | 19.13 | 20.28 | 20.68 |
|                 | 12H  | 18.16            | 19.29 | 18.59 | 19.67 | 20.10 | 18.77          | 19.91 | 19.20 | 20.29 | 20.72 |
| 4H              | 2H   | 16.52            | 17.86 | 16.92 | 18.21 | 18.58 | 16.62          | 17.96 | 17.02 | 18.31 | 18.68 |
|                 | 3H   | 18.16            | 19.28 | 18.57 | 19.67 | 20.08 | 18.48          | 19.60 | 18.89 | 20.00 | 20.40 |
|                 | 4H   | 18.68            | 19.68 | 19.11 | 20.10 | 20.53 | 19.11          | 20.12 | 19.55 | 20.53 | 20.97 |
|                 | 6H   | 18.98            | 19.85 | 19.44 | 20.30 | 20.75 | 19.53          | 20.40 | 19.98 | 20.85 | 21.30 |
|                 | 8H   | 19.04            | 19.85 | 19.50 | 20.30 | 20.76 | 19.66          | 20.48 | 20.12 | 20.92 | 21.39 |
|                 | 12H  | 19.06            | 19.79 | 19.54 | 20.27 | 20.74 | 19.76          | 20.49 | 20.24 | 20.97 | 21.44 |
| 8H              | 4H   | 18.90            | 19.72 | 19.37 | 20.16 | 20.63 | 19.30          | 20.12 | 19.76 | 20.56 | 21.03 |
|                 | 6H   | 19.27            | 19.95 | 19.77 | 20.44 | 20.92 | 19.80          | 20.47 | 20.29 | 20.96 | 21.44 |
|                 | 8H   | 19.36            | 19.97 | 19.88 | 20.48 | 20.97 | 19.98          | 20.59 | 20.49 | 21.10 | 21.58 |
|                 | 12H  | 19.42            | 19.95 | 19.93 | 20.44 | 21.01 | 20.15          | 20.68 | 20.66 | 21.17 | 21.74 |
| 12H             | 4H   | 18.92            | 19.65 | 19.40 | 20.13 | 20.60 | 19.30          | 20.03 | 19.78 | 20.51 | 20.98 |
|                 | 6H   | 19.30            | 19.90 | 19.81 | 20.41 | 20.90 | 19.80          | 20.41 | 20.32 | 20.92 | 21.41 |
|                 | 8H   | 19.43            | 19.96 | 19.94 | 20.45 | 21.02 | 20.03          | 20.57 | 20.54 | 21.06 | 21.62 |