

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: P1498138

Luminaire Tested: MAE-G-2-120-1LO-50-90-VRDCPH

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498138  
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-2-120-1LO-50-90-VRDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient illumination levels  
Light Source: -  
Ballast/Driver: -

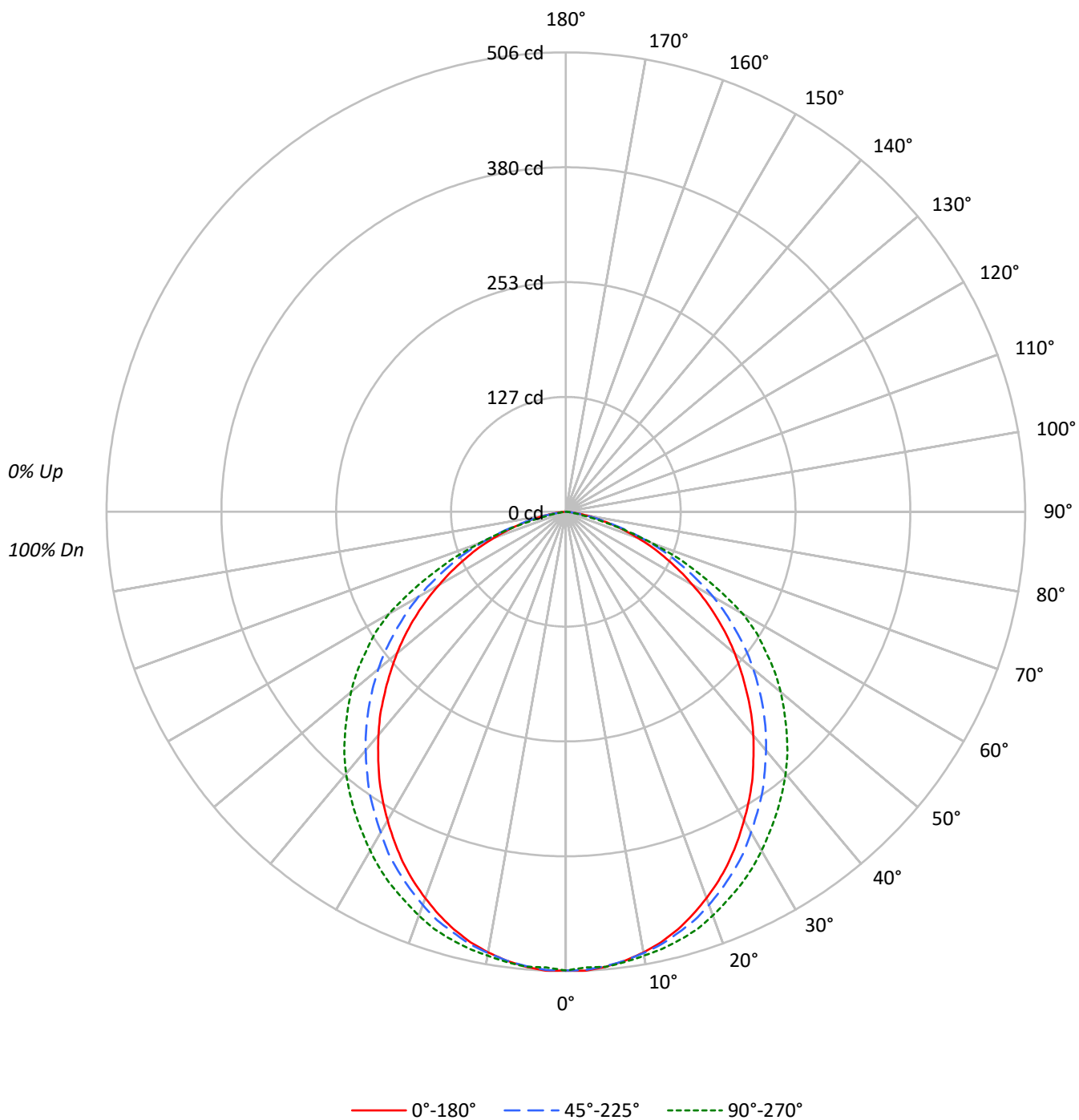
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1272.0 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 12.2  
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: P1498138

CATALOG NUMBER: MAE-G-2-120-1LO-50-90-VRDCPH

### Luminous Intensity Polar Plot



TEST NUMBER: P1498138

CATALOG NUMBER: MAE-G-2-120-1LO-50-90-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   | 110 | 106 | 102 | 98  | 107 | 103 | 100 | 97  | 99  | 96  | 94  |  | 95  | 93  | 91  |  | 92  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  |  | 84  | 80  | 77  |  | 81  |
| 3   | 92  | 82  | 74  | 68  | 90  | 80  | 73  | 67  | 77  | 71  | 66  |  | 75  | 70  | 65  |  | 72  |
| 4   | 84  | 73  | 65  | 58  | 82  | 72  | 64  | 58  | 69  | 62  | 57  |  | 67  | 61  | 56  |  | 65  |
| 5   | 78  | 65  | 57  | 50  | 76  | 64  | 56  | 50  | 62  | 55  | 49  |  | 60  | 54  | 49  |  | 58  |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 43  |  | 55  | 48  | 43  |  | 53  |
| 7   | 67  | 54  | 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  | 31  | 57  | 44  | 37  | 31  | 43  | 36  | 31  |  | 42  | 36  | 31  |  | 41  |
| 10  | 54  | 41  | 34  | 29  | 53  | 41  | 34  | 28  | 40  | 33  | 28  |  | 39  | 33  | 28  |  | 38  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1359 | 1359 | 1359 |
| 5°  | 1359 | 1357 | 1359 |
| 10° | 1347 | 1349 | 1357 |
| 15° | 1327 | 1337 | 1359 |
| 20° | 1297 | 1320 | 1355 |
| 25° | 1263 | 1297 | 1349 |
| 30° | 1220 | 1267 | 1340 |
| 35° | 1177 | 1239 | 1330 |
| 40° | 1129 | 1205 | 1323 |
| 45° | 1074 | 1170 | 1309 |
| 50° | 1016 | 1129 | 1294 |
| 55° | 951  | 1074 | 1262 |
| 60° | 869  | 1010 | 1213 |
| 65° | 777  | 903  | 1042 |
| 70° | 663  | 761  | 795  |
| 75° | 514  | 552  | 446  |
| 80° | 338  | 293  | 158  |
| 85° | 179  | 136  | 90   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1309 cd/sqm

TEST NUMBER: P1498138

CATALOG NUMBER: MAE-G-2-120-1LO-50-90-VRDCPH

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 47.7   | 3.8       |
| 10°-20°   | 135.6  | 10.7      |
| 20°-30°   | 201.6  | 15.9      |
| 30°-40°   | 237.0  | 18.6      |
| 40°-50°   | 239.2  | 18.8      |
| 50°-60°   | 207.7  | 16.3      |
| 60°-70°   | 141.4  | 11.1      |
| 70°-80°   | 55.1   | 4.3       |
| 80°-90°   | 6.6    | 0.5       |
| 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°    | 384.9  | 30.3      |
| 0°-40°    | 622.0  | 48.9      |
| 0°-60°    | 1068.9 | 84.0      |
| 0°-90°    | 1272.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1272.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 505 | 505   | 505 | 505   | 505 |      |
| 5°  | 503 | 502   | 502 | 502   | 503 | 48   |
| 15° | 476 | 477   | 480 | 485   | 488 | 134  |
| 25° | 425 | 428   | 437 | 448   | 454 | 196  |
| 35° | 358 | 363   | 377 | 395   | 405 | 224  |
| 45° | 282 | 289   | 308 | 332   | 344 | 218  |
| 55° | 203 | 209   | 229 | 255   | 269 | 181  |
| 65° | 122 | 128   | 142 | 157   | 164 | 121  |
| 75° | 49  | 52    | 53  | 48    | 43  | 54   |
| 85° | 6   | 6     | 4   | 4     | 3   | 9    |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

TEST NUMBER: P1498138

CATALOG NUMBER: MAE-G-2-120-1LO-50-90-VRDCPH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 505.2 | 505.2 | 505.2 | 505.2 | 505.2 |
| 2.5°  | 506.0 | 506.0 | 505.2 | 503.1 | 502.3 |
| 5°    | 503.1 | 502.3 | 502.3 | 502.3 | 503.1 |
| 7.5°  | 498.7 | 498.7 | 498.7 | 499.4 | 500.2 |
| 10°   | 492.9 | 492.9 | 493.6 | 495.1 | 496.5 |
| 12.5° | 485.6 | 486.3 | 487.8 | 490.7 | 492.9 |
| 15°   | 476.2 | 476.9 | 479.8 | 484.9 | 487.8 |
| 17.5° | 465.3 | 467.4 | 471.8 | 477.6 | 482.0 |
| 20°   | 452.9 | 455.1 | 460.9 | 468.2 | 473.3 |
| 22.5° | 439.8 | 442.0 | 449.3 | 458.0 | 463.8 |
| 25°   | 425.3 | 427.5 | 436.9 | 447.8 | 454.4 |
| 27.5° | 409.3 | 412.2 | 423.8 | 435.5 | 443.5 |
| 30°   | 392.6 | 396.2 | 407.8 | 422.4 | 431.1 |
| 32.5° | 375.8 | 380.2 | 392.6 | 409.3 | 418.0 |
| 35°   | 358.4 | 362.8 | 377.3 | 394.7 | 404.9 |
| 37.5° | 339.5 | 344.6 | 359.9 | 380.9 | 391.1 |
| 40°   | 321.3 | 326.4 | 343.1 | 365.7 | 376.6 |
| 42.5° | 302.4 | 308.2 | 325.7 | 348.9 | 361.3 |
| 45°   | 282.1 | 289.3 | 307.5 | 331.5 | 343.9 |
| 47.5° | 262.4 | 269.0 | 288.6 | 313.3 | 326.4 |
| 50°   | 242.8 | 250.1 | 269.7 | 295.2 | 309.0 |
| 52.5° | 223.2 | 229.7 | 250.1 | 275.5 | 290.1 |
| 55°   | 202.8 | 209.4 | 229.0 | 255.2 | 269.0 |
| 57.5° | 182.5 | 190.5 | 208.6 | 234.1 | 249.4 |
| 60°   | 161.4 | 168.7 | 187.6 | 213.0 | 225.4 |
| 62.5° | 141.8 | 148.3 | 164.3 | 188.3 | 194.1 |
| 65°   | 122.1 | 127.9 | 141.8 | 157.0 | 163.6 |
| 67.5° | 104.0 | 108.3 | 120.7 | 130.9 | 133.8 |
| 70°   | 84.3  | 88.7  | 96.7  | 102.5 | 101.0 |
| 72.5° | 66.9  | 69.8  | 74.9  | 74.2  | 70.5  |
| 75°   | 49.4  | 52.3  | 53.1  | 48.0  | 42.9  |
| 77.5° | 34.9  | 36.3  | 34.2  | 26.9  | 21.8  |
| 80°   | 21.8  | 22.5  | 18.9  | 11.6  | 10.2  |
| 82.5° | 12.4  | 12.4  | 8.7   | 7.3   | 5.8   |
| 85°   | 5.8   | 5.8   | 4.4   | 3.6   | 2.9   |
| 87.5° | 2.2   | 2.2   | 1.5   | 1.5   | 1.5   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

TEST NUMBER: P1498138

CATALOG NUMBER: MAE-G-2-120-1LO-50-90-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 | 11.67            | 13.25 | 12.04 | 13.57 | 13.88 | 13.25          | 14.83 | 13.62 | 15.14 | 15.46 |
|                 | 3H   | 13.01            | 14.43 | 13.39 | 14.75 | 15.11 | 14.52          | 15.94 | 14.90 | 16.26 | 16.63 |
|                 | 4H   | 13.38            | 14.70 | 13.77 | 15.05 | 15.43 | 14.72          | 16.05 | 15.11 | 16.39 | 16.77 |
|                 | 6H   | 13.54            | 14.77 | 13.95 | 15.13 | 15.52 | 14.71          | 15.94 | 15.12 | 16.31 | 16.70 |
|                 | 8H   | 13.55            | 14.72 | 13.98 | 15.11 | 15.51 | 14.69          | 15.86 | 15.11 | 16.25 | 16.65 |
|                 | 12H  | 13.55            | 14.67 | 13.98 | 15.05 | 15.48 | 14.66          | 15.78 | 15.09 | 16.16 | 16.59 |
| 4H              | 2H   | 12.34            | 13.67 | 12.74 | 14.02 | 14.39 | 13.63          | 14.96 | 14.03 | 15.31 | 15.68 |
|                 | 3H   | 13.83            | 14.94 | 14.24 | 15.33 | 15.74 | 15.07          | 16.17 | 15.48 | 16.57 | 16.97 |
|                 | 4H   | 14.28            | 15.27 | 14.71 | 15.68 | 16.12 | 15.32          | 16.31 | 15.75 | 16.72 | 17.16 |
|                 | 6H   | 14.50            | 15.36 | 14.96 | 15.80 | 16.26 | 15.35          | 16.21 | 15.80 | 16.65 | 17.11 |
|                 | 8H   | 14.53            | 15.33 | 14.99 | 15.77 | 16.24 | 15.32          | 16.12 | 15.78 | 16.56 | 17.03 |
|                 | 12H  | 14.53            | 15.24 | 15.01 | 15.72 | 16.19 | 15.30          | 16.01 | 15.78 | 16.49 | 16.96 |
| 8H              | 4H   | 14.43            | 15.24 | 14.90 | 15.68 | 16.15 | 15.40          | 16.20 | 15.87 | 16.65 | 17.11 |
|                 | 6H   | 14.69            | 15.35 | 15.19 | 15.84 | 16.32 | 15.44          | 16.10 | 15.93 | 16.59 | 17.06 |
|                 | 8H   | 14.74            | 15.32 | 15.25 | 15.83 | 16.32 | 15.41          | 16.00 | 15.92 | 16.51 | 17.00 |
|                 | 12H  | 14.76            | 15.28 | 15.27 | 15.77 | 16.33 | 15.40          | 15.91 | 15.90 | 16.41 | 16.97 |
| 12H             | 4H   | 14.42            | 15.13 | 14.90 | 15.61 | 16.08 | 15.39          | 16.10 | 15.87 | 16.58 | 17.05 |
|                 | 6H   | 14.66            | 15.25 | 15.18 | 15.76 | 16.25 | 15.41          | 16.00 | 15.92 | 16.51 | 17.00 |
|                 | 8H   | 14.73            | 15.25 | 15.24 | 15.74 | 16.31 | 15.41          | 15.93 | 15.92 | 16.42 | 16.98 |