

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: P1498126

Luminaire Tested: MAE-G-2-120-1LO-35-90-VRDCPH

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498126  
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-35-90-VRDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient illumination levels  
Light Source: -  
Ballast/Driver: -

**Summary**

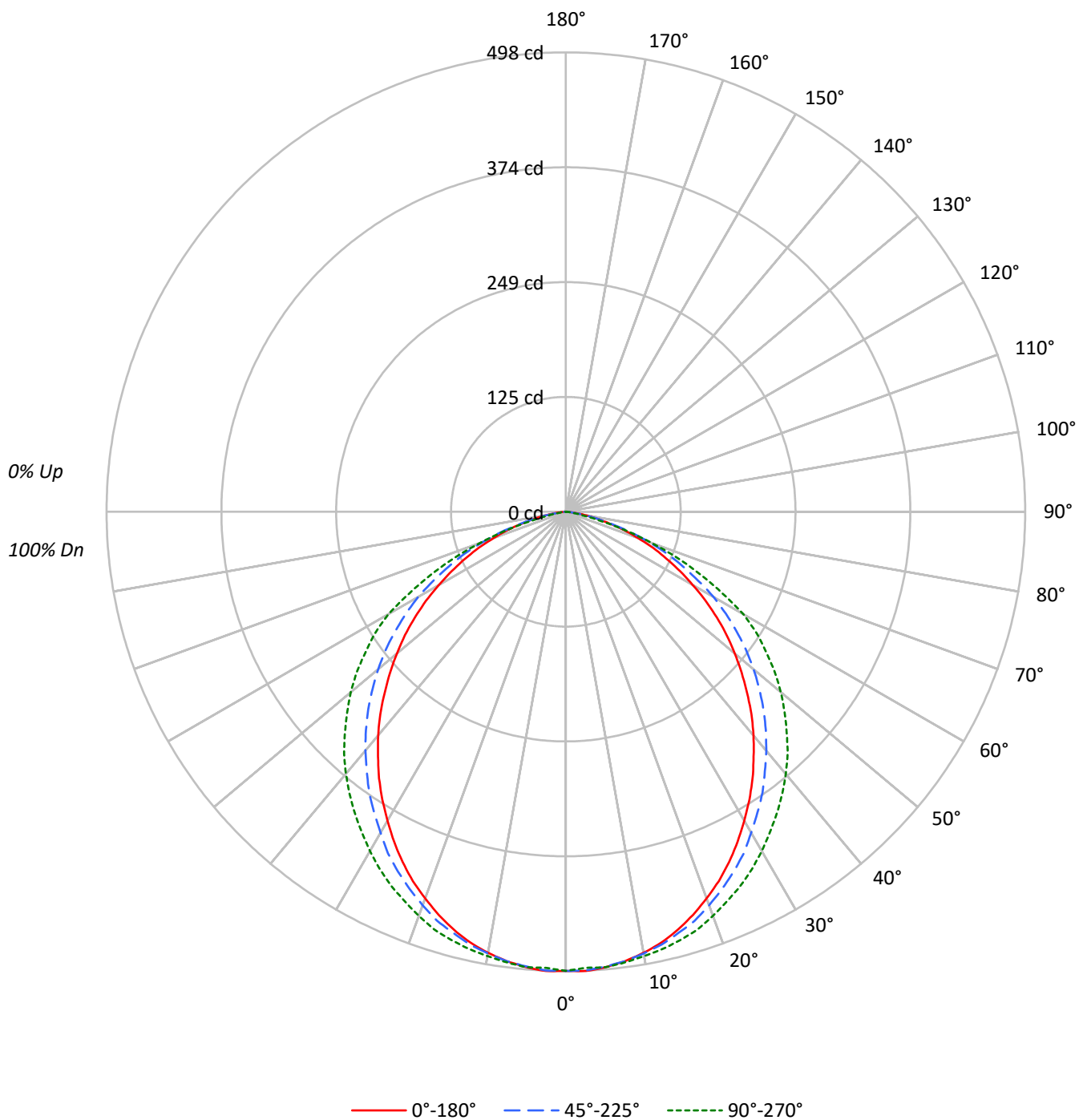
Lumens per Lamp: N/A  
Luminaire Lumens: 1253.0 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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

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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 | 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°  | 1339 | 1339 | 1339 |
| 5°  | 1339 | 1337 | 1339 |
| 10° | 1327 | 1329 | 1336 |
| 15° | 1307 | 1317 | 1339 |
| 20° | 1277 | 1300 | 1335 |
| 25° | 1244 | 1278 | 1329 |
| 30° | 1202 | 1248 | 1320 |
| 35° | 1160 | 1221 | 1310 |
| 40° | 1112 | 1187 | 1303 |
| 45° | 1058 | 1153 | 1289 |
| 50° | 1001 | 1112 | 1274 |
| 55° | 937  | 1058 | 1243 |
| 60° | 856  | 995  | 1195 |
| 65° | 766  | 889  | 1026 |
| 70° | 654  | 749  | 783  |
| 75° | 506  | 544  | 440  |
| 80° | 333  | 288  | 155  |
| 85° | 176  | 133  | 90   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1289 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 47.0   | 3.8       |
| 10°-20°   | 133.6  | 10.7      |
| 20°-30°   | 198.6  | 15.9      |
| 30°-40°   | 233.5  | 18.6      |
| 40°-50°   | 235.7  | 18.8      |
| 50°-60°   | 204.6  | 16.3      |
| 60°-70°   | 139.3  | 11.1      |
| 70°-80°   | 54.3   | 4.3       |
| 80°-90°   | 6.5    | 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°    | 379.2  | 30.3      |
| 0°-40°    | 612.7  | 48.9      |
| 0°-60°    | 1053.0 | 84.0      |
| 0°-90°    | 1253.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1253.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 498 | 498   | 498 | 498   | 498 |      |
| 5°  | 496 | 495   | 495 | 495   | 496 | 47   |
| 15° | 469 | 470   | 473 | 478   | 480 | 132  |
| 25° | 419 | 421   | 430 | 441   | 448 | 193  |
| 35° | 353 | 357   | 372 | 389   | 399 | 220  |
| 45° | 278 | 285   | 303 | 326   | 339 | 215  |
| 55° | 200 | 206   | 226 | 251   | 265 | 178  |
| 65° | 120 | 126   | 140 | 155   | 161 | 119  |
| 75° | 49  | 52    | 52  | 47    | 42  | 53   |
| 85° | 6   | 6     | 4   | 4     | 3   | 8    |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 497.7 | 497.7 | 497.7 | 497.7 | 497.7 |
| 2.5°  | 498.4 | 498.4 | 497.7 | 495.6 | 494.8 |
| 5°    | 495.6 | 494.8 | 494.8 | 494.8 | 495.6 |
| 7.5°  | 491.3 | 491.3 | 491.3 | 492.0 | 492.7 |
| 10°   | 485.5 | 485.5 | 486.2 | 487.7 | 489.1 |
| 12.5° | 478.4 | 479.1 | 480.5 | 483.4 | 485.5 |
| 15°   | 469.1 | 469.8 | 472.6 | 477.6 | 480.5 |
| 17.5° | 458.3 | 460.5 | 464.8 | 470.5 | 474.8 |
| 20°   | 446.1 | 448.3 | 454.0 | 461.2 | 466.2 |
| 22.5° | 433.3 | 435.4 | 442.6 | 451.2 | 456.9 |
| 25°   | 418.9 | 421.1 | 430.4 | 441.1 | 447.6 |
| 27.5° | 403.2 | 406.0 | 417.5 | 429.0 | 436.8 |
| 30°   | 386.7 | 390.3 | 401.7 | 416.1 | 424.7 |
| 32.5° | 370.2 | 374.5 | 386.7 | 403.2 | 411.8 |
| 35°   | 353.0 | 357.3 | 371.7 | 388.9 | 398.9 |
| 37.5° | 334.4 | 339.4 | 354.5 | 375.2 | 385.3 |
| 40°   | 316.5 | 321.5 | 338.0 | 360.2 | 370.9 |
| 42.5° | 297.9 | 303.6 | 320.8 | 343.7 | 355.9 |
| 45°   | 277.9 | 285.0 | 302.9 | 326.5 | 338.7 |
| 47.5° | 258.5 | 265.0 | 284.3 | 308.6 | 321.5 |
| 50°   | 239.2 | 246.3 | 265.7 | 290.7 | 304.3 |
| 52.5° | 219.8 | 226.3 | 246.3 | 271.4 | 285.7 |
| 55°   | 199.8 | 206.2 | 225.6 | 251.4 | 265.0 |
| 57.5° | 179.7 | 187.6 | 205.5 | 230.6 | 245.6 |
| 60°   | 159.0 | 166.1 | 184.8 | 209.8 | 222.0 |
| 62.5° | 139.6 | 146.1 | 161.8 | 185.5 | 191.2 |
| 65°   | 120.3 | 126.0 | 139.6 | 154.7 | 161.1 |
| 67.5° | 102.4 | 106.7 | 118.9 | 128.9 | 131.8 |
| 70°   | 83.1  | 87.4  | 95.2  | 101.0 | 99.5  |
| 72.5° | 65.9  | 68.7  | 73.8  | 73.0  | 69.5  |
| 75°   | 48.7  | 51.6  | 52.3  | 47.3  | 42.3  |
| 77.5° | 34.4  | 35.8  | 33.7  | 26.5  | 21.5  |
| 80°   | 21.5  | 22.2  | 18.6  | 11.5  | 10.0  |
| 82.5° | 12.2  | 12.2  | 8.6   | 7.2   | 5.7   |
| 85°   | 5.7   | 5.7   | 4.3   | 3.6   | 2.9   |
| 87.5° | 2.1   | 2.1   | 1.4   | 1.4   | 1.4   |
| 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 | 11.62            | 13.20 | 11.98 | 13.51 | 13.83 | 13.20          | 14.78 | 13.56 | 15.09 | 15.41 |
|                 | 3H   | 12.95            | 14.37 | 13.33 | 14.70 | 15.06 | 14.47          | 15.88 | 14.84 | 16.21 | 16.57 |
|                 | 4H   | 13.32            | 14.65 | 13.72 | 15.00 | 15.38 | 14.66          | 15.99 | 15.06 | 16.34 | 16.72 |
|                 | 6H   | 13.49            | 14.71 | 13.90 | 15.08 | 15.47 | 14.66          | 15.89 | 15.07 | 16.25 | 16.65 |
|                 | 8H   | 13.50            | 14.67 | 13.93 | 15.06 | 15.46 | 14.63          | 15.80 | 15.06 | 16.19 | 16.59 |
|                 | 12H  | 13.49            | 14.61 | 13.92 | 15.00 | 15.42 | 14.61          | 15.73 | 15.04 | 16.11 | 16.54 |
| 4H              | 2H   | 12.28            | 13.61 | 12.68 | 13.96 | 14.34 | 13.58          | 14.90 | 13.97 | 15.25 | 15.63 |
|                 | 3H   | 13.78            | 14.88 | 14.19 | 15.28 | 15.68 | 15.01          | 16.12 | 15.42 | 16.51 | 16.91 |
|                 | 4H   | 14.22            | 15.21 | 14.66 | 15.63 | 16.07 | 15.27          | 16.26 | 15.70 | 16.67 | 17.11 |
|                 | 6H   | 14.45            | 15.31 | 14.91 | 15.75 | 16.21 | 15.29          | 16.15 | 15.75 | 16.59 | 17.05 |
|                 | 8H   | 14.47            | 15.27 | 14.94 | 15.72 | 16.18 | 15.27          | 16.07 | 15.73 | 16.51 | 16.98 |
|                 | 12H  | 14.48            | 15.19 | 14.96 | 15.67 | 16.14 | 15.25          | 15.96 | 15.73 | 16.44 | 16.91 |
| 8H              | 4H   | 14.38            | 15.18 | 14.84 | 15.63 | 16.09 | 15.35          | 16.15 | 15.81 | 16.60 | 17.06 |
|                 | 6H   | 14.64            | 15.30 | 15.14 | 15.79 | 16.27 | 15.38          | 16.04 | 15.88 | 16.53 | 17.01 |
|                 | 8H   | 14.68            | 15.27 | 15.20 | 15.78 | 16.27 | 15.36          | 15.95 | 15.87 | 16.46 | 16.94 |
|                 | 12H  | 14.70            | 15.22 | 15.21 | 15.71 | 16.28 | 15.34          | 15.86 | 15.85 | 16.35 | 16.92 |
| 12H             | 4H   | 14.36            | 15.08 | 14.84 | 15.56 | 16.03 | 15.34          | 16.05 | 15.82 | 16.53 | 17.00 |
|                 | 6H   | 14.61            | 15.20 | 15.13 | 15.71 | 16.20 | 15.36          | 15.95 | 15.87 | 16.46 | 16.94 |
|                 | 8H   | 14.68            | 15.20 | 15.19 | 15.69 | 16.26 | 15.36          | 15.87 | 15.87 | 16.37 | 16.93 |

END OF REPORT