

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: P1498132

Luminaire Tested: MAE-G-2-120-1LO-40-90-VRDCPH

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498132  
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-40-90-VRDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient illumination levels  
Light Source: -  
Ballast/Driver: -

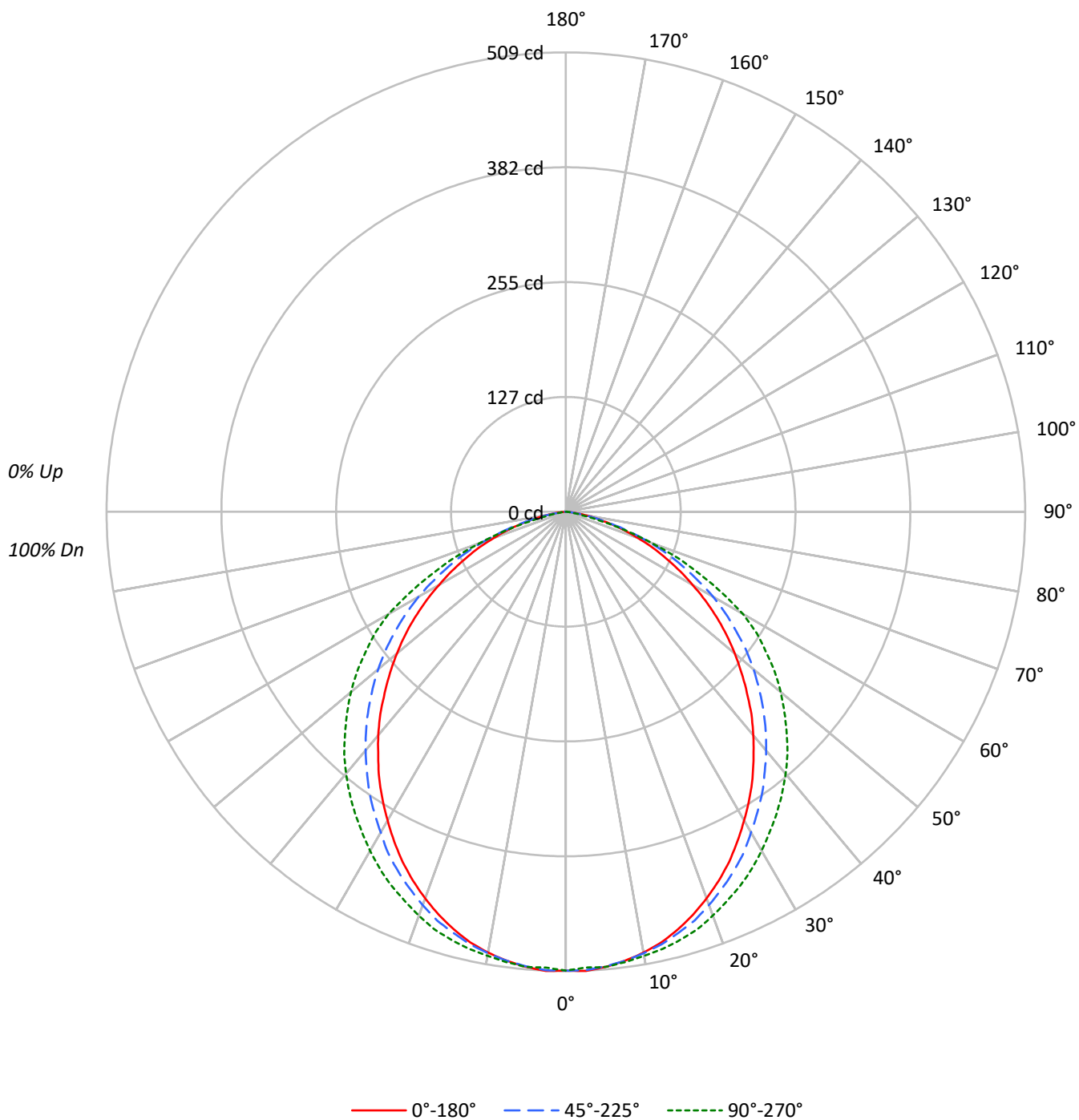
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1280.0 lumens  
Efficiency: N/A  
Efficacy: 104.9 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°  | 1368 | 1368 | 1368 |
| 5°  | 1367 | 1365 | 1367 |
| 10° | 1355 | 1357 | 1365 |
| 15° | 1335 | 1345 | 1368 |
| 20° | 1305 | 1328 | 1364 |
| 25° | 1271 | 1306 | 1358 |
| 30° | 1227 | 1275 | 1348 |
| 35° | 1185 | 1247 | 1339 |
| 40° | 1136 | 1213 | 1331 |
| 45° | 1080 | 1177 | 1317 |
| 50° | 1023 | 1136 | 1302 |
| 55° | 958  | 1081 | 1270 |
| 60° | 874  | 1016 | 1221 |
| 65° | 783  | 909  | 1048 |
| 70° | 668  | 766  | 800  |
| 75° | 517  | 555  | 449  |
| 80° | 339  | 294  | 158  |
| 85° | 182  | 136  | 90   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1317 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 48.0   | 3.8       |
| 10°-20°   | 136.5  | 10.7      |
| 20°-30°   | 202.9  | 15.9      |
| 30°-40°   | 238.5  | 18.6      |
| 40°-50°   | 240.7  | 18.8      |
| 50°-60°   | 209.1  | 16.3      |
| 60°-70°   | 142.3  | 11.1      |
| 70°-80°   | 55.4   | 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°    | 387.3  | 30.3      |
| 0°-40°    | 625.9  | 48.9      |
| 0°-60°    | 1075.7 | 84.0      |
| 0°-90°    | 1280.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1280.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 508 | 508   | 508 | 508   | 508 |      |
| 5°  | 506 | 506   | 506 | 506   | 506 | 48   |
| 15° | 479 | 480   | 483 | 488   | 491 | 135  |
| 25° | 428 | 430   | 440 | 451   | 457 | 197  |
| 35° | 361 | 365   | 380 | 397   | 408 | 225  |
| 45° | 284 | 291   | 309 | 334   | 346 | 219  |
| 55° | 204 | 211   | 230 | 257   | 271 | 182  |
| 65° | 123 | 129   | 143 | 158   | 165 | 122  |
| 75° | 50  | 53    | 53  | 48    | 43  | 54   |
| 85° | 6   | 6     | 4   | 4     | 3   | 9    |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 508.4 | 508.4 | 508.4 | 508.4 | 508.4 |
| 2.5°  | 509.2 | 509.2 | 508.4 | 506.2 | 505.5 |
| 5°    | 506.2 | 505.5 | 505.5 | 505.5 | 506.2 |
| 7.5°  | 501.8 | 501.8 | 501.8 | 502.6 | 503.3 |
| 10°   | 496.0 | 496.0 | 496.7 | 498.2 | 499.6 |
| 12.5° | 488.7 | 489.4 | 490.9 | 493.8 | 496.0 |
| 15°   | 479.2 | 479.9 | 482.8 | 487.9 | 490.9 |
| 17.5° | 468.2 | 470.4 | 474.8 | 480.6 | 485.0 |
| 20°   | 455.8 | 457.9 | 463.8 | 471.1 | 476.2 |
| 22.5° | 442.6 | 444.8 | 452.1 | 460.9 | 466.7 |
| 25°   | 428.0 | 430.2 | 439.7 | 450.6 | 457.2 |
| 27.5° | 411.9 | 414.8 | 426.5 | 438.2 | 446.2 |
| 30°   | 395.0 | 398.7 | 410.4 | 425.0 | 433.8 |
| 32.5° | 378.2 | 382.6 | 395.0 | 411.9 | 420.6 |
| 35°   | 360.7 | 365.0 | 379.7 | 397.2 | 407.5 |
| 37.5° | 341.6 | 346.8 | 362.1 | 383.3 | 393.6 |
| 40°   | 323.3 | 328.5 | 345.3 | 368.0 | 378.9 |
| 42.5° | 304.3 | 310.2 | 327.7 | 351.1 | 363.6 |
| 45°   | 283.8 | 291.2 | 309.4 | 333.6 | 346.0 |
| 47.5° | 264.1 | 270.7 | 290.4 | 315.3 | 328.5 |
| 50°   | 244.3 | 251.7 | 271.4 | 297.0 | 310.9 |
| 52.5° | 224.6 | 231.2 | 251.7 | 277.3 | 291.9 |
| 55°   | 204.1 | 210.7 | 230.4 | 256.8 | 270.7 |
| 57.5° | 183.6 | 191.7 | 210.0 | 235.6 | 250.9 |
| 60°   | 162.4 | 169.7 | 188.7 | 214.3 | 226.8 |
| 62.5° | 142.7 | 149.2 | 165.3 | 189.5 | 195.3 |
| 65°   | 122.9 | 128.8 | 142.7 | 158.0 | 164.6 |
| 67.5° | 104.6 | 109.0 | 121.4 | 131.7 | 134.6 |
| 70°   | 84.9  | 89.2  | 97.3  | 103.1 | 101.7 |
| 72.5° | 67.3  | 70.2  | 75.3  | 74.6  | 71.0  |
| 75°   | 49.7  | 52.7  | 53.4  | 48.3  | 43.2  |
| 77.5° | 35.1  | 36.6  | 34.4  | 27.1  | 21.9  |
| 80°   | 21.9  | 22.7  | 19.0  | 11.7  | 10.2  |
| 82.5° | 12.4  | 12.4  | 8.8   | 7.3   | 5.9   |
| 85°   | 5.9   | 5.9   | 4.4   | 3.7   | 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   |

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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 | 11.69            | 13.27 | 12.06 | 13.59 | 13.90 | 13.27          | 14.85 | 13.64 | 15.17 | 15.48 |
|                 | 3H   | 13.03            | 14.45 | 13.41 | 14.77 | 15.13 | 14.54          | 15.96 | 14.92 | 16.29 | 16.65 |
|                 | 4H   | 13.40            | 14.73 | 13.80 | 15.07 | 15.45 | 14.74          | 16.07 | 15.14 | 16.42 | 16.79 |
|                 | 6H   | 13.56            | 14.79 | 13.97 | 15.15 | 15.55 | 14.73          | 15.96 | 15.15 | 16.33 | 16.72 |
|                 | 8H   | 13.58            | 14.74 | 14.00 | 15.13 | 15.53 | 14.71          | 15.88 | 15.13 | 16.27 | 16.67 |
|                 | 12H  | 13.57            | 14.69 | 14.00 | 15.07 | 15.50 | 14.68          | 15.80 | 15.11 | 16.18 | 16.61 |
| 4H              | 2H   | 12.36            | 13.69 | 12.76 | 14.04 | 14.41 | 13.65          | 14.98 | 14.05 | 15.33 | 15.71 |
|                 | 3H   | 13.86            | 14.96 | 14.27 | 15.36 | 15.76 | 15.09          | 16.19 | 15.50 | 16.59 | 16.99 |
|                 | 4H   | 14.30            | 15.29 | 14.73 | 15.70 | 16.14 | 15.34          | 16.33 | 15.77 | 16.74 | 17.18 |
|                 | 6H   | 14.52            | 15.38 | 14.98 | 15.82 | 16.28 | 15.37          | 16.23 | 15.82 | 16.67 | 17.13 |
|                 | 8H   | 14.55            | 15.35 | 15.01 | 15.79 | 16.26 | 15.34          | 16.14 | 15.80 | 16.59 | 17.05 |
|                 | 12H  | 14.55            | 15.27 | 15.03 | 15.74 | 16.21 | 15.32          | 16.03 | 15.80 | 16.51 | 16.98 |
| 8H              | 4H   | 14.46            | 15.26 | 14.92 | 15.70 | 16.17 | 15.43          | 16.23 | 15.89 | 16.67 | 17.14 |
|                 | 6H   | 14.72            | 15.37 | 15.21 | 15.86 | 16.34 | 15.46          | 16.12 | 15.95 | 16.61 | 17.08 |
|                 | 8H   | 14.76            | 15.35 | 15.27 | 15.85 | 16.34 | 15.43          | 16.02 | 15.95 | 16.53 | 17.02 |
|                 | 12H  | 14.78            | 15.30 | 15.29 | 15.79 | 16.35 | 15.42          | 15.94 | 15.93 | 16.43 | 16.99 |
| 12H             | 4H   | 14.44            | 15.15 | 14.92 | 15.63 | 16.10 | 15.41          | 16.13 | 15.89 | 16.60 | 17.07 |
|                 | 6H   | 14.69            | 15.28 | 15.20 | 15.79 | 16.27 | 15.43          | 16.02 | 15.94 | 16.53 | 17.02 |
|                 | 8H   | 14.75            | 15.27 | 15.26 | 15.77 | 16.33 | 15.43          | 15.95 | 15.94 | 16.44 | 17.00 |