

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: P1498171

Luminaire Tested: MAE-G-2-120-1LO-LO-30-VRDCPH

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498171  
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-LO-30-VRDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient , LO exam illumination levels  
Light Source: -  
Ballast/Driver: -

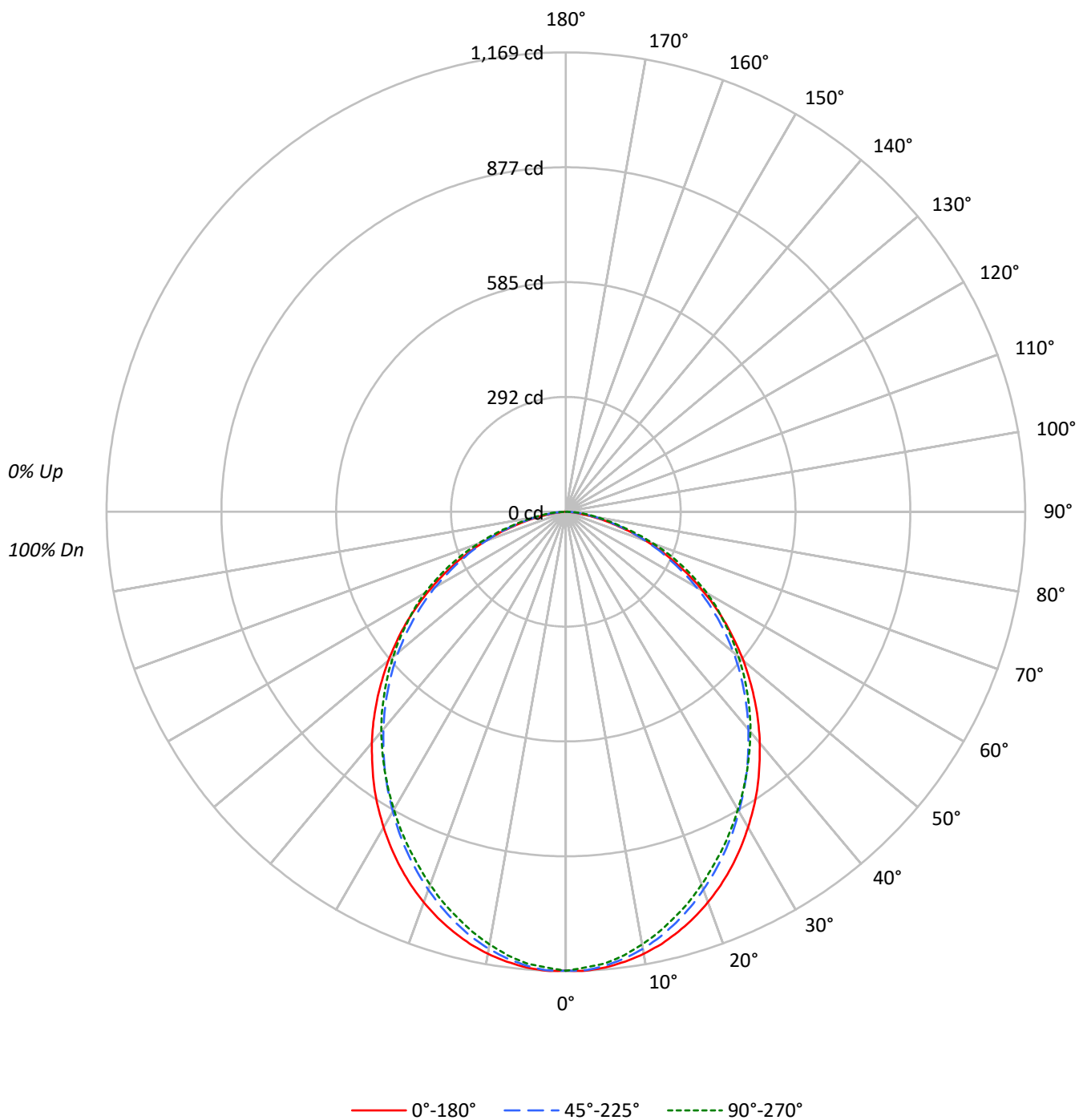
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2790.0 lumens  
Efficiency: N/A  
Efficacy: 76.0 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): 36.7  
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   | 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°  | 3143 | 3143 | 3143 |
| 5°  | 3144 | 3132 | 3116 |
| 10° | 3121 | 3086 | 3055 |
| 15° | 3082 | 3016 | 2977 |
| 20° | 3029 | 2930 | 2892 |
| 25° | 2962 | 2838 | 2805 |
| 30° | 2882 | 2736 | 2719 |
| 35° | 2796 | 2639 | 2641 |
| 40° | 2697 | 2537 | 2567 |
| 45° | 2587 | 2437 | 2485 |
| 50° | 2470 | 2331 | 2401 |
| 55° | 2334 | 2207 | 2313 |
| 60° | 2167 | 2066 | 2237 |
| 65° | 1973 | 1883 | 2087 |
| 70° | 1713 | 1697 | 1870 |
| 75° | 1368 | 1451 | 1551 |
| 80° | 948  | 1131 | 1246 |
| 85° | 531  | 871  | 1136 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 2587 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 109.6  | 3.9       |
| 10°-20°   | 305.4  | 10.9      |
| 20°-30°   | 443.2  | 15.9      |
| 30°-40°   | 509.7  | 18.3      |
| 40°-50°   | 504.1  | 18.1      |
| 50°-60°   | 431.4  | 15.5      |
| 60°-70°   | 304.7  | 10.9      |
| 70°-80°   | 149.1  | 5.3       |
| 80°-90°   | 32.9   | 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°    | 858.2  | 30.8      |
| 0°-40°    | 1367.9 | 49.0      |
| 0°-60°    | 2303.4 | 82.6      |
| 0°-90°    | 2790.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2790.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1168 | 1168  | 1168 | 1168  | 1168 |      |
| 5°  | 1164 | 1163  | 1159 | 1151  | 1154 | 110  |
| 15° | 1106 | 1100  | 1083 | 1067  | 1069 | 312  |
| 25° | 998  | 982   | 956  | 942   | 945  | 459  |
| 35° | 851  | 830   | 803  | 799   | 804  | 532  |
| 45° | 680  | 660   | 640  | 647   | 653  | 524  |
| 55° | 498  | 480   | 470  | 483   | 493  | 444  |
| 65° | 310  | 296   | 296  | 318   | 328  | 307  |
| 75° | 132  | 126   | 140  | 149   | 149  | 142  |
| 85° | 17   | 21    | 28   | 34    | 37   | 24   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1168.0 | 1168.0 | 1168.0 | 1168.0 | 1168.0 |
| 2.5°  | 1169.2 | 1170.2 | 1168.0 | 1159.0 | 1160.6 |
| 5°    | 1163.9 | 1162.9 | 1159.3 | 1150.9 | 1153.5 |
| 7.5°  | 1154.7 | 1153.0 | 1146.5 | 1136.5 | 1138.2 |
| 10°   | 1142.3 | 1139.0 | 1129.4 | 1116.8 | 1118.2 |
| 12.5° | 1126.4 | 1121.9 | 1108.3 | 1093.9 | 1095.2 |
| 15°   | 1106.4 | 1100.0 | 1082.6 | 1067.2 | 1068.7 |
| 17.5° | 1083.6 | 1076.1 | 1054.9 | 1038.3 | 1041.4 |
| 20°   | 1057.6 | 1047.6 | 1023.3 | 1007.3 | 1009.9 |
| 22.5° | 1029.0 | 1016.5 | 990.8  | 975.3  | 977.2  |
| 25°   | 997.6  | 982.4  | 955.8  | 942.4  | 944.6  |
| 27.5° | 963.6  | 946.9  | 919.5  | 907.0  | 910.7  |
| 30°   | 927.4  | 909.4  | 880.4  | 871.2  | 875.2  |
| 32.5° | 890.3  | 871.0  | 842.3  | 835.9  | 839.8  |
| 35°   | 851.2  | 830.2  | 803.3  | 798.9  | 803.8  |
| 37.5° | 809.3  | 789.1  | 762.5  | 762.8  | 767.4  |
| 40°   | 767.8  | 746.9  | 722.3  | 725.0  | 730.8  |
| 42.5° | 724.8  | 704.5  | 681.9  | 686.2  | 693.0  |
| 45°   | 679.9  | 660.4  | 640.4  | 646.8  | 653.1  |
| 47.5° | 634.8  | 615.6  | 599.0  | 606.6  | 614.3  |
| 50°   | 590.0  | 571.5  | 556.8  | 566.4  | 573.6  |
| 52.5° | 542.9  | 525.4  | 514.3  | 524.7  | 534.0  |
| 55°   | 497.5  | 479.6  | 470.4  | 483.0  | 493.1  |
| 57.5° | 450.4  | 435.5  | 427.6  | 442.7  | 455.5  |
| 60°   | 402.6  | 388.0  | 383.8  | 403.4  | 415.7  |
| 62.5° | 355.9  | 341.5  | 339.1  | 362.5  | 371.6  |
| 65°   | 309.8  | 295.8  | 295.8  | 317.9  | 327.7  |
| 67.5° | 264.1  | 251.3  | 256.2  | 277.7  | 284.4  |
| 70°   | 217.7  | 206.2  | 215.7  | 234.2  | 237.7  |
| 72.5° | 174.0  | 164.4  | 177.6  | 190.9  | 192.1  |
| 75°   | 131.6  | 125.6  | 139.6  | 148.7  | 149.2  |
| 77.5° | 94.2   | 91.1   | 104.2  | 110.8  | 111.5  |
| 80°   | 61.2   | 62.5   | 73.0   | 78.2   | 80.4   |
| 82.5° | 35.7   | 38.9   | 47.2   | 55.2   | 57.5   |
| 85°   | 17.2   | 21.1   | 28.2   | 34.3   | 36.8   |
| 87.5° | 6.0    | 8.6    | 11.8   | 13.1   | 12.7   |
| 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 | 14.78            | 16.37 | 15.15 | 16.68 | 16.99 | 14.90          | 16.48 | 15.27 | 16.80 | 17.11 |
|                 | 3H   | 16.24            | 17.66 | 16.61 | 17.99 | 18.35 | 16.56          | 17.99 | 16.94 | 18.31 | 18.67 |
|                 | 4H   | 16.67            | 18.00 | 17.06 | 18.35 | 18.73 | 17.08          | 18.41 | 17.48 | 18.76 | 19.14 |
|                 | 6H   | 16.89            | 18.13 | 17.30 | 18.49 | 18.88 | 17.39          | 18.63 | 17.80 | 18.99 | 19.38 |
|                 | 8H   | 16.92            | 18.10 | 17.35 | 18.49 | 18.89 | 17.48          | 18.66 | 17.91 | 19.05 | 19.45 |
|                 | 12H  | 16.93            | 18.06 | 17.36 | 18.44 | 18.87 | 17.55          | 18.68 | 17.98 | 19.06 | 19.49 |
| 4H              | 2H   | 15.29            | 16.63 | 15.69 | 16.98 | 17.36 | 15.39          | 16.73 | 15.79 | 17.08 | 17.45 |
|                 | 3H   | 16.93            | 18.05 | 17.34 | 18.45 | 18.85 | 17.26          | 18.37 | 17.67 | 18.77 | 19.17 |
|                 | 4H   | 17.45            | 18.45 | 17.88 | 18.87 | 19.30 | 17.89          | 18.89 | 18.32 | 19.30 | 19.74 |
|                 | 6H   | 17.75            | 18.63 | 18.21 | 19.07 | 19.53 | 18.30          | 19.18 | 18.76 | 19.62 | 20.08 |
|                 | 8H   | 17.81            | 18.63 | 18.27 | 19.07 | 19.53 | 18.43          | 19.25 | 18.89 | 19.69 | 20.16 |
|                 | 12H  | 17.83            | 18.56 | 18.31 | 19.04 | 19.51 | 18.53          | 19.27 | 19.02 | 19.74 | 20.21 |
| 8H              | 4H   | 17.68            | 18.49 | 18.14 | 18.94 | 19.40 | 18.07          | 18.89 | 18.53 | 19.33 | 19.80 |
|                 | 6H   | 18.05            | 18.72 | 18.54 | 19.21 | 19.69 | 18.57          | 19.25 | 19.06 | 19.73 | 20.21 |
|                 | 8H   | 18.14            | 18.74 | 18.65 | 19.25 | 19.74 | 18.75          | 19.36 | 19.27 | 19.87 | 20.36 |
|                 | 12H  | 18.19            | 18.72 | 18.70 | 19.22 | 19.78 | 18.92          | 19.45 | 19.43 | 19.95 | 20.51 |
| 12H             | 4H   | 17.69            | 18.42 | 18.17 | 18.90 | 19.37 | 18.07          | 18.80 | 18.55 | 19.28 | 19.75 |
|                 | 6H   | 18.07            | 18.68 | 18.58 | 19.18 | 19.67 | 18.58          | 19.18 | 19.09 | 19.69 | 20.18 |
|                 | 8H   | 18.20            | 18.73 | 18.71 | 19.23 | 19.79 | 18.81          | 19.34 | 19.31 | 19.83 | 20.40 |