

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: P1499641

Luminaire Tested: MAE-G-4-120-3LO-STD-35-VRDCPH

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1499641  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: MAE-G-4-120-3LO-STD-35-VRDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient , STD exam illumination levels  
Light Source: -  
Ballast/Driver: -

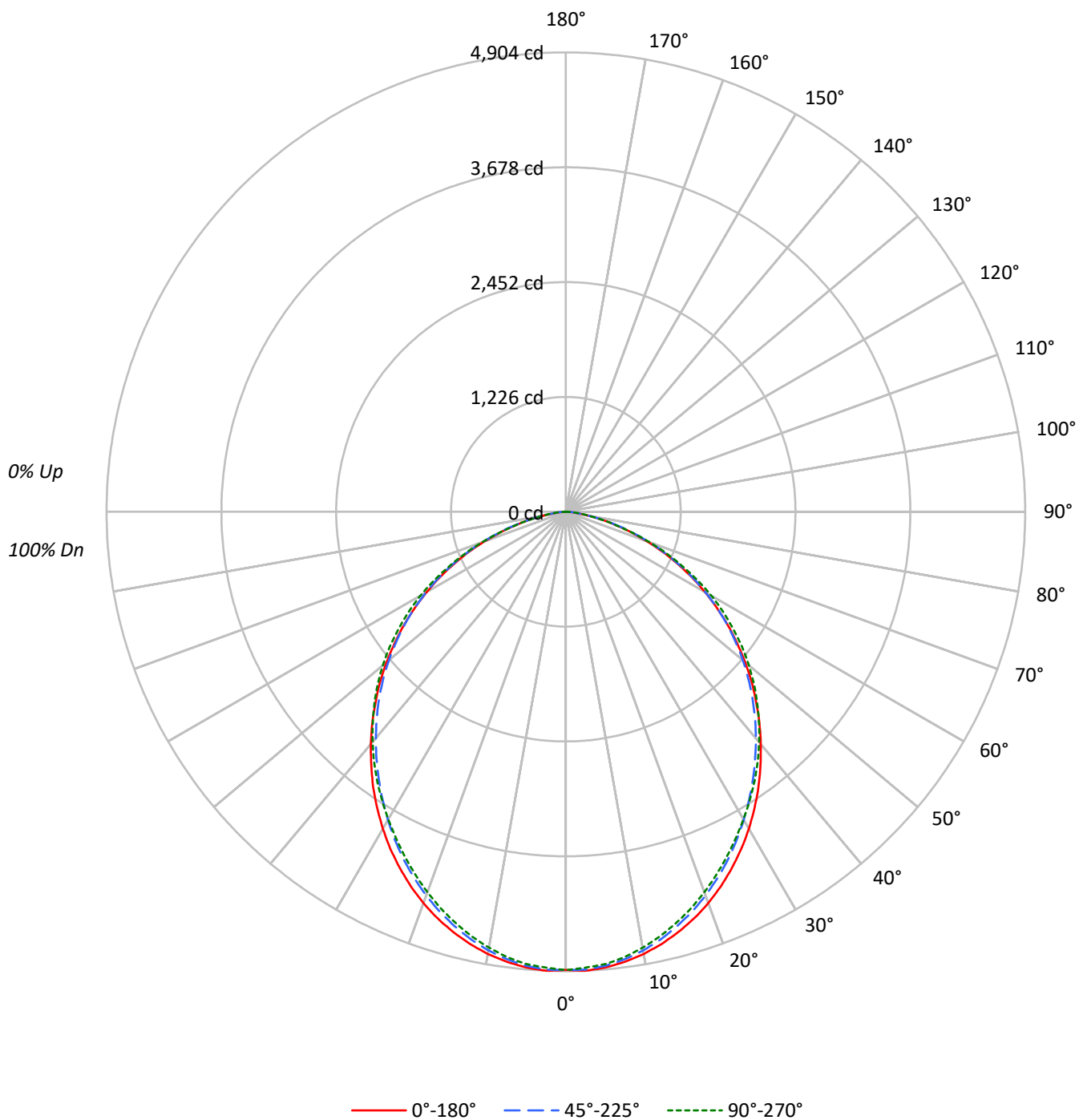
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11968.0 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 140.5  
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 | 105 | 101 | 98  | 107 | 103 | 99  | 96  | 99  | 96  | 93  |  | 95  | 92  | 90  |  | 91  |
| 2   | 100 | 92  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  |  | 84  | 80  | 76  |  | 81  |
| 3   | 92  | 82  | 74  | 68  | 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  | 44  | 39  | 51  | 44  | 38  |  | 50  | 43  | 38  |  | 48  |
| 8   | 62  | 49  | 41  | 35  | 61  | 48  | 40  | 35  | 47  | 40  | 34  |  | 46  | 39  | 34  |  | 44  |
| 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°  | 6583 | 6583 | 6583 |
| 5°  | 6594 | 6571 | 6546 |
| 10° | 6549 | 6497 | 6456 |
| 15° | 6470 | 6382 | 6332 |
| 20° | 6366 | 6242 | 6188 |
| 25° | 6228 | 6081 | 6034 |
| 30° | 6070 | 5901 | 5890 |
| 35° | 5891 | 5719 | 5767 |
| 40° | 5688 | 5542 | 5639 |
| 45° | 5468 | 5362 | 5499 |
| 50° | 5227 | 5161 | 5337 |
| 55° | 4954 | 4931 | 5115 |
| 60° | 4617 | 4639 | 4833 |
| 65° | 4199 | 4253 | 4363 |
| 70° | 3623 | 3721 | 3740 |
| 75° | 2885 | 3004 | 2889 |
| 80° | 1953 | 2046 | 1997 |
| 85° | 1016 | 1348 | 1687 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5499 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 460.3   | 3.8       |
| 10°-20°   | 1290.8  | 10.8      |
| 20°-30°   | 1890.8  | 15.8      |
| 30°-40°   | 2195.9  | 18.3      |
| 40°-50°   | 2195.5  | 18.3      |
| 50°-60°   | 1894.0  | 15.8      |
| 60°-70°   | 1322.7  | 11.1      |
| 70°-80°   | 606.7   | 5.1       |
| 80°-90°   | 111.4   | 0.9       |
| 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       |
| <hr/>     |         |           |
| 0°-30°    | 3641.9  | 30.4      |
| 0°-40°    | 5837.8  | 48.8      |
| 0°-60°    | 9927.3  | 82.9      |
| 0°-90°    | 11968.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 11968.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4892 | 4892  | 4892 | 4892  | 4892 |      |
| 5°  | 4882 | 4863  | 4866 | 4839  | 4847 | 463  |
| 15° | 4645 | 4613  | 4581 | 4540  | 4545 | 1309 |
| 25° | 4195 | 4150  | 4096 | 4052  | 4064 | 1931 |
| 35° | 3586 | 3530  | 3482 | 3483  | 3511 | 2241 |
| 45° | 2874 | 2827  | 2818 | 2859  | 2890 | 2217 |
| 55° | 2112 | 2075  | 2102 | 2159  | 2180 | 1885 |
| 65° | 1319 | 1303  | 1336 | 1364  | 1370 | 1303 |
| 75° | 555  | 554   | 578  | 567   | 556  | 596  |
| 85° | 66   | 72    | 87   | 103   | 109  | 97   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 4892.3 | 4892.3 | 4892.3 | 4892.3 | 4892.3 |
| 2.5°  | 4903.8 | 4886.2 | 4892.3 | 4872.0 | 4870.4 |
| 5°    | 4882.2 | 4863.1 | 4865.5 | 4839.4 | 4846.7 |
| 7.5°  | 4844.5 | 4823.3 | 4818.6 | 4789.3 | 4795.4 |
| 10°   | 4793.3 | 4767.5 | 4755.5 | 4721.0 | 4725.2 |
| 12.5° | 4725.2 | 4697.4 | 4676.4 | 4636.3 | 4643.0 |
| 15°   | 4645.0 | 4613.4 | 4581.4 | 4539.8 | 4545.4 |
| 17.5° | 4552.2 | 4516.3 | 4477.1 | 4429.6 | 4439.5 |
| 20°   | 4445.7 | 4405.9 | 4359.3 | 4309.3 | 4321.8 |
| 22.5° | 4326.3 | 4283.3 | 4231.0 | 4184.1 | 4195.6 |
| 25°   | 4194.9 | 4149.8 | 4096.2 | 4052.1 | 4064.2 |
| 27.5° | 4056.7 | 4006.2 | 3950.5 | 3914.8 | 3928.4 |
| 30°   | 3906.9 | 3853.9 | 3798.3 | 3770.9 | 3791.2 |
| 32.5° | 3749.0 | 3695.2 | 3642.9 | 3629.1 | 3653.0 |
| 35°   | 3586.5 | 3529.5 | 3482.1 | 3482.8 | 3510.9 |
| 37.5° | 3411.8 | 3361.4 | 3320.5 | 3335.6 | 3364.0 |
| 40°   | 3238.4 | 3186.1 | 3155.5 | 3180.1 | 3210.4 |
| 42.5° | 3058.9 | 3010.8 | 2988.7 | 3024.3 | 3052.1 |
| 45°   | 2873.5 | 2827.2 | 2818.1 | 2859.4 | 2889.8 |
| 47.5° | 2690.4 | 2644.0 | 2645.0 | 2691.7 | 2725.1 |
| 50°   | 2497.1 | 2456.3 | 2465.8 | 2520.0 | 2549.7 |
| 52.5° | 2303.3 | 2264.6 | 2285.0 | 2343.2 | 2372.7 |
| 55°   | 2112.0 | 2075.3 | 2101.9 | 2159.2 | 2180.5 |
| 57.5° | 1913.5 | 1887.0 | 1916.7 | 1968.0 | 1991.2 |
| 60°   | 1715.9 | 1691.7 | 1723.9 | 1773.9 | 1796.0 |
| 62.5° | 1517.8 | 1498.6 | 1531.5 | 1574.8 | 1584.4 |
| 65°   | 1319.0 | 1302.9 | 1335.9 | 1363.8 | 1370.5 |
| 67.5° | 1117.5 | 1108.3 | 1141.5 | 1160.9 | 1162.9 |
| 70°   | 921.0  | 910.5  | 945.9  | 957.3  | 950.6  |
| 72.5° | 729.9  | 726.6  | 754.2  | 757.7  | 745.0  |
| 75°   | 554.9  | 553.6  | 577.8  | 567.1  | 555.7  |
| 77.5° | 392.5  | 393.1  | 409.8  | 396.8  | 391.1  |
| 80°   | 252.0  | 259.3  | 264.0  | 261.7  | 257.7  |
| 82.5° | 141.6  | 150.9  | 154.7  | 170.6  | 177.3  |
| 85°   | 65.8   | 72.5   | 87.3   | 102.7  | 109.3  |
| 87.5° | 22.3   | 27.8   | 36.1   | 39.0   | 36.6   |
| 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 | 17.48            | 19.06 | 17.84 | 19.38 | 19.69 | 17.77          | 19.36 | 18.14 | 19.67 | 19.98 |
|                 | 3H   | 18.93            | 20.36 | 19.31 | 20.69 | 21.05 | 19.23          | 20.65 | 19.60 | 20.98 | 21.34 |
|                 | 4H   | 19.36            | 20.70 | 19.76 | 21.04 | 21.42 | 19.63          | 20.97 | 20.03 | 21.31 | 21.69 |
|                 | 6H   | 19.56            | 20.80 | 19.97 | 21.17 | 21.56 | 19.82          | 21.05 | 20.23 | 21.42 | 21.81 |
|                 | 8H   | 19.59            | 20.77 | 20.02 | 21.16 | 21.56 | 19.86          | 21.04 | 20.28 | 21.42 | 21.82 |
|                 | 12H  | 19.59            | 20.72 | 20.02 | 21.10 | 21.53 | 19.88          | 21.01 | 20.31 | 21.39 | 21.82 |
| 4H              | 2H   | 18.05            | 19.39 | 18.45 | 19.74 | 20.11 | 18.29          | 19.63 | 18.69 | 19.97 | 20.35 |
|                 | 3H   | 19.68            | 20.79 | 20.09 | 21.19 | 21.59 | 19.93          | 21.04 | 20.34 | 21.44 | 21.84 |
|                 | 4H   | 20.19            | 21.19 | 20.62 | 21.61 | 22.04 | 20.42          | 21.42 | 20.85 | 21.84 | 22.27 |
|                 | 6H   | 20.47            | 21.34 | 20.93 | 21.79 | 22.24 | 20.69          | 21.56 | 21.14 | 22.00 | 22.46 |
|                 | 8H   | 20.52            | 21.33 | 20.98 | 21.77 | 22.24 | 20.75          | 21.56 | 21.21 | 22.00 | 22.47 |
|                 | 12H  | 20.53            | 21.26 | 21.01 | 21.73 | 22.20 | 20.79          | 21.52 | 21.27 | 22.00 | 22.47 |
| 8H              | 4H   | 20.38            | 21.19 | 20.84 | 21.64 | 22.10 | 20.59          | 21.40 | 21.05 | 21.85 | 22.31 |
|                 | 6H   | 20.72            | 21.39 | 21.21 | 21.88 | 22.36 | 20.91          | 21.58 | 21.41 | 22.07 | 22.55 |
|                 | 8H   | 20.79            | 21.39 | 21.30 | 21.90 | 22.38 | 21.00          | 21.60 | 21.52 | 22.11 | 22.60 |
|                 | 12H  | 20.82            | 21.35 | 21.33 | 21.84 | 22.41 | 21.09          | 21.62 | 21.59 | 22.11 | 22.67 |
| 12H             | 4H   | 20.38            | 21.11 | 20.86 | 21.58 | 22.06 | 20.59          | 21.32 | 21.07 | 21.79 | 22.26 |
|                 | 6H   | 20.72            | 21.32 | 21.23 | 21.83 | 22.31 | 20.91          | 21.51 | 21.42 | 22.02 | 22.50 |
|                 | 8H   | 20.82            | 21.35 | 21.33 | 21.84 | 22.40 | 21.03          | 21.56 | 21.54 | 22.06 | 22.62 |