

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: P1498735

Luminaire Tested: MAE-G-2-120-3LO-HI-40-VRDCPH

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498735  
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-2-120-3LO-HI-40-VRDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient , HI exam illumination levels  
Light Source: -  
Ballast/Driver: -

**Summary**

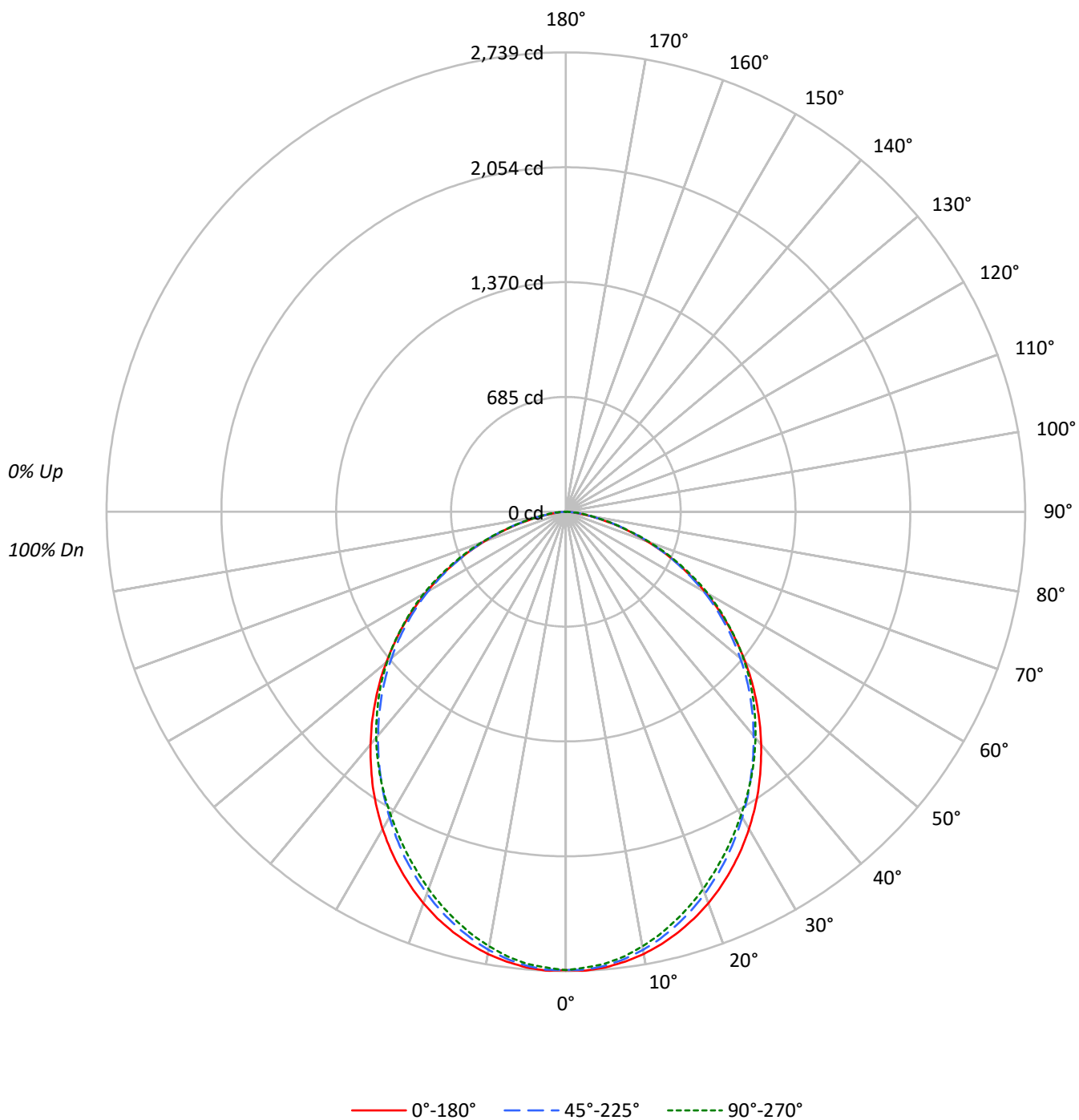
Lumens per Lamp: N/A  
Luminaire Lumens: 6641.0 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 79.2  
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  | 30  | 10  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 110 | 105 | 101 | 98  | 107 | 103 | 99  | 96  | 99  | 96  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |    |    |
| 2   | 100 | 92  | 86  | 80  | 98  | 90  | 85  | 79  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 77  | 74  | 72  |    |    |
| 3   | 92  | 82  | 74  | 68  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 65  | 72  | 67  | 64  | 61  |    |    |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 56  | 66  | 61  | 56  | 64  | 59  | 55  | 53  |    |    |
| 5   | 78  | 65  | 56  | 50  | 75  | 64  | 56  | 50  | 62  | 55  | 49  | 60  | 54  | 49  | 58  | 53  | 48  | 46  |    |    |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 43  | 54  | 48  | 43  | 53  | 47  | 42  | 40  |    |    |
| 7   | 67  | 53  | 45  | 39  | 65  | 53  | 44  | 39  | 51  | 44  | 38  | 50  | 43  | 38  | 48  | 42  | 38  | 36  |    |    |
| 8   | 62  | 49  | 41  | 35  | 61  | 48  | 40  | 35  | 47  | 40  | 34  | 46  | 39  | 34  | 44  | 39  | 34  | 32  |    |    |
| 9   | 58  | 45  | 37  | 31  | 57  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 31  | 29  |    |    |
| 10  | 54  | 42  | 34  | 29  | 53  | 41  | 34  | 29  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |    |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7353 | 7353 | 7353 |
| 5°  | 7366 | 7339 | 7306 |
| 10° | 7316 | 7248 | 7191 |
| 15° | 7229 | 7108 | 7032 |
| 20° | 7114 | 6939 | 6854 |
| 25° | 6962 | 6748 | 6665 |
| 30° | 6788 | 6537 | 6490 |
| 35° | 6590 | 6326 | 6337 |
| 40° | 6365 | 6120 | 6180 |
| 45° | 6121 | 5911 | 6012 |
| 50° | 5853 | 5683 | 5821 |
| 55° | 5550 | 5422 | 5575 |
| 60° | 5176 | 5097 | 5281 |
| 65° | 4714 | 4677 | 4819 |
| 70° | 4074 | 4125 | 4205 |
| 75° | 3252 | 3391 | 3362 |
| 80° | 2214 | 2405 | 2461 |
| 85° | 1167 | 1661 | 2133 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6121 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 256.9  | 3.9       |
| 10°-20°   | 718.8  | 10.8      |
| 20°-30°   | 1050.0 | 15.8      |
| 30°-40°   | 1216.1 | 18.3      |
| 40°-50°   | 1212.5 | 18.3      |
| 50°-60°   | 1044.0 | 15.7      |
| 60°-70°   | 732.0  | 11.0      |
| 70°-80°   | 343.8  | 5.2       |
| 80°-90°   | 66.9   | 1.0       |
| 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°    | 2025.7 | 30.5      |
| 0°-40°    | 3241.8 | 48.8      |
| 0°-60°    | 5498.3 | 82.8      |
| 0°-90°    | 6641.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6641.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2733 | 2733  | 2733 | 2733  | 2733 |      |
| 5°  | 2727 | 2717  | 2717 | 2700  | 2704 | 259  |
| 15° | 2595 | 2576  | 2551 | 2522  | 2524 | 731  |
| 25° | 2345 | 2315  | 2273 | 2240  | 2245 | 1080 |
| 35° | 2006 | 1967  | 1926 | 1917  | 1929 | 1253 |
| 45° | 1608 | 1574  | 1553 | 1567  | 1580 | 1241 |
| 55° | 1183 | 1154  | 1156 | 1179  | 1188 | 1056 |
| 65° | 740  | 724   | 735  | 752   | 757  | 731  |
| 75° | 313  | 308   | 326  | 327   | 323  | 336  |
| 85° | 38   | 43    | 54   | 64    | 69   | 55   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2732.6 | 2732.6 | 2732.6 | 2732.6 | 2732.6 |
| 2.5°  | 2738.6 | 2730.2 | 2732.6 | 2719.5 | 2719.7 |
| 5°    | 2726.7 | 2717.1 | 2716.7 | 2700.1 | 2704.5 |
| 7.5°  | 2705.7 | 2694.4 | 2689.4 | 2670.1 | 2673.6 |
| 10°   | 2677.3 | 2663.0 | 2652.6 | 2629.4 | 2631.5 |
| 12.5° | 2639.5 | 2623.4 | 2606.5 | 2579.2 | 2582.2 |
| 15°   | 2594.9 | 2576.1 | 2551.4 | 2522.1 | 2524.3 |
| 17.5° | 2543.1 | 2521.3 | 2490.9 | 2457.6 | 2462.1 |
| 20°   | 2484.1 | 2459.1 | 2423.0 | 2388.2 | 2393.5 |
| 22.5° | 2417.7 | 2390.0 | 2349.9 | 2316.2 | 2320.5 |
| 25°   | 2344.6 | 2314.7 | 2272.8 | 2240.5 | 2244.9 |
| 27.5° | 2267.7 | 2234.2 | 2189.9 | 2162.0 | 2167.1 |
| 30°   | 2184.4 | 2148.8 | 2103.8 | 2080.3 | 2088.5 |
| 32.5° | 2096.6 | 2059.7 | 2016.2 | 1999.9 | 2009.9 |
| 35°   | 2005.9 | 1966.7 | 1925.6 | 1916.9 | 1929.0 |
| 37.5° | 1908.6 | 1872.8 | 1834.7 | 1833.8 | 1845.8 |
| 40°   | 1811.9 | 1774.7 | 1742.1 | 1746.3 | 1759.4 |
| 42.5° | 1711.7 | 1676.6 | 1648.7 | 1658.8 | 1670.5 |
| 45°   | 1608.3 | 1574.0 | 1553.3 | 1566.9 | 1579.7 |
| 47.5° | 1505.7 | 1471.7 | 1457.0 | 1473.5 | 1488.1 |
| 50°   | 1398.2 | 1367.0 | 1357.4 | 1378.2 | 1390.4 |
| 52.5° | 1289.5 | 1260.0 | 1257.0 | 1280.0 | 1292.9 |
| 55°   | 1183.0 | 1154.3 | 1155.6 | 1178.8 | 1188.2 |
| 57.5° | 1072.2 | 1049.3 | 1053.3 | 1075.0 | 1085.9 |
| 60°   | 961.8  | 940.4  | 947.0  | 970.0  | 981.3  |
| 62.5° | 851.1  | 832.7  | 841.5  | 863.3  | 869.6  |
| 65°   | 740.3  | 723.9  | 734.6  | 751.9  | 756.8  |
| 67.5° | 627.8  | 615.8  | 629.4  | 644.2  | 646.9  |
| 70°   | 517.8  | 505.8  | 524.3  | 535.6  | 534.5  |
| 72.5° | 411.1  | 404.1  | 421.4  | 429.3  | 424.9  |
| 75°   | 312.8  | 308.3  | 326.1  | 326.8  | 323.4  |
| 77.5° | 221.7  | 220.2  | 234.9  | 234.3  | 233.8  |
| 80°   | 142.9  | 146.9  | 155.2  | 159.3  | 158.8  |
| 82.5° | 80.9   | 86.9   | 93.7   | 105.8  | 110.7  |
| 85°   | 37.8   | 42.8   | 53.8   | 64.4   | 69.1   |
| 87.5° | 12.8   | 16.7   | 22.5   | 24.5   | 23.1   |
| 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 | 17.87            | 19.45 | 18.23 | 19.76 | 20.08 | 18.02          | 19.61 | 18.39 | 19.92 | 20.24 |
|                 | 3H   | 19.33            | 20.75 | 19.71 | 21.08 | 21.44 | 19.53          | 20.96 | 19.91 | 21.28 | 21.64 |
|                 | 4H   | 19.76            | 21.10 | 20.16 | 21.44 | 21.82 | 19.97          | 21.31 | 20.37 | 21.66 | 22.04 |
|                 | 6H   | 19.97            | 21.21 | 20.38 | 21.57 | 21.96 | 20.20          | 21.44 | 20.62 | 21.81 | 22.20 |
|                 | 8H   | 20.00            | 21.18 | 20.42 | 21.57 | 21.97 | 20.26          | 21.44 | 20.69 | 21.83 | 22.23 |
|                 | 12H  | 20.00            | 21.13 | 20.43 | 21.51 | 21.94 | 20.30          | 21.43 | 20.73 | 21.81 | 22.24 |
| 4H              | 2H   | 18.42            | 19.76 | 18.82 | 20.11 | 20.48 | 18.55          | 19.89 | 18.95 | 20.23 | 20.61 |
|                 | 3H   | 20.06            | 21.18 | 20.47 | 21.57 | 21.97 | 20.25          | 21.36 | 20.66 | 21.76 | 22.16 |
|                 | 4H   | 20.58            | 21.58 | 21.01 | 21.99 | 22.43 | 20.79          | 21.79 | 21.22 | 22.20 | 22.64 |
|                 | 6H   | 20.87            | 21.74 | 21.32 | 22.18 | 22.64 | 21.10          | 21.98 | 21.56 | 22.42 | 22.87 |
|                 | 8H   | 20.91            | 21.73 | 21.37 | 22.17 | 22.64 | 21.18          | 22.00 | 21.65 | 22.44 | 22.91 |
|                 | 12H  | 20.93            | 21.66 | 21.41 | 22.13 | 22.60 | 21.25          | 21.98 | 21.73 | 22.45 | 22.92 |
| 8H              | 4H   | 20.78            | 21.59 | 21.24 | 22.03 | 22.50 | 20.96          | 21.78 | 21.43 | 22.22 | 22.69 |
|                 | 6H   | 21.12            | 21.80 | 21.62 | 22.29 | 22.76 | 21.35          | 22.02 | 21.84 | 22.51 | 22.99 |
|                 | 8H   | 21.20            | 21.80 | 21.71 | 22.31 | 22.80 | 21.47          | 22.07 | 21.98 | 22.58 | 23.07 |
|                 | 12H  | 21.24            | 21.77 | 21.75 | 22.26 | 22.83 | 21.58          | 22.11 | 22.08 | 22.60 | 23.16 |
| 12H             | 4H   | 20.78            | 21.51 | 21.26 | 21.99 | 22.46 | 20.96          | 21.69 | 21.44 | 22.17 | 22.64 |
|                 | 6H   | 21.13            | 21.73 | 21.64 | 22.24 | 22.73 | 21.35          | 21.95 | 21.86 | 22.46 | 22.95 |
|                 | 8H   | 21.24            | 21.77 | 21.75 | 22.26 | 22.83 | 21.51          | 22.04 | 22.01 | 22.53 | 23.09 |

END OF REPORT