

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: P1498543

Luminaire Tested: MAE-G-2-120-2STD-HI-40-VRDCPH

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498543  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: MAE-G-2-120-2STD-HI-40-VRDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 STD ambient , HI exam illumination levels  
Light Source: -  
Ballast/Driver: -

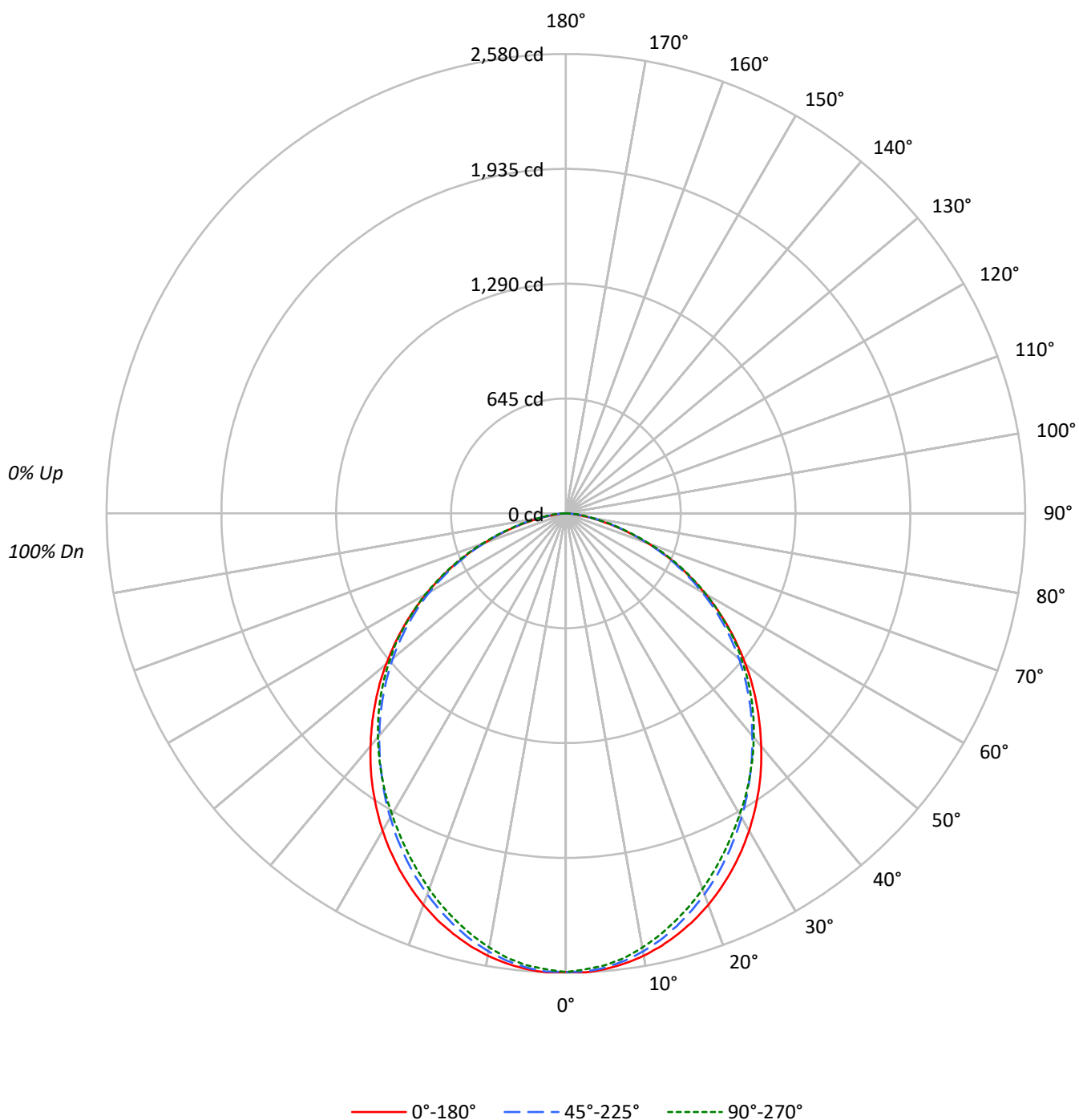
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6229.1 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 77.3  
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  | 80  | 98  | 90  | 85  | 79  | 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  | 45  | 39  | 51  | 44  | 38  |  | 50  | 43  | 38  |  | 48  |
| 8   | 62  | 49  | 41  | 35  | 61  | 48  | 40  | 35  | 47  | 40  | 35  |  | 46  | 39  | 34  |  | 44  |
| 9   | 58  | 45  | 37  | 31  | 57  | 44  | 37  | 31  | 43  | 36  | 31  |  | 42  | 36  | 31  |  | 41  |
| 10  | 55  | 42  | 34  | 29  | 53  | 41  | 34  | 29  | 40  | 33  | 28  |  | 39  | 33  | 28  |  | 38  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6931 | 6931 | 6931 |
| 5°  | 6940 | 6916 | 6881 |
| 10° | 6893 | 6827 | 6765 |
| 15° | 6809 | 6688 | 6605 |
| 20° | 6700 | 6518 | 6429 |
| 25° | 6561 | 6331 | 6239 |
| 30° | 6396 | 6129 | 6068 |
| 35° | 6210 | 5922 | 5918 |
| 40° | 5997 | 5725 | 5767 |
| 45° | 5767 | 5525 | 5610 |
| 50° | 5516 | 5312 | 5418 |
| 55° | 5227 | 5061 | 5191 |
| 60° | 4880 | 4753 | 4908 |
| 65° | 4443 | 4355 | 4498 |
| 70° | 3843 | 3836 | 3946 |
| 75° | 3070 | 3168 | 3221 |
| 80° | 2092 | 2292 | 2402 |
| 85° | 1093 | 1606 | 2093 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 5767 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 242.0  | 3.9       |
| 10°-20°   | 676.3  | 10.9      |
| 20°-30°   | 986.1  | 15.8      |
| 30°-40°   | 1140.5 | 18.3      |
| 40°-50°   | 1135.4 | 18.2      |
| 50°-60°   | 976.2  | 15.7      |
| 60°-70°   | 684.3  | 11.0      |
| 70°-80°   | 323.9  | 5.2       |
| 80°-90°   | 64.4   | 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°    | 1904.5 | 30.6      |
| 0°-40°    | 3045.0 | 48.9      |
| 0°-60°    | 5156.6 | 82.8      |
| 0°-90°    | 6229.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6229.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2576 | 2576  | 2576 | 2576  | 2576 |      |
| 5°  | 2569 | 2561  | 2560 | 2544  | 2547 | 244  |
| 15° | 2444 | 2426  | 2401 | 2370  | 2371 | 689  |
| 25° | 2210 | 2180  | 2132 | 2100  | 2101 | 1017 |
| 35° | 1890 | 1851  | 1803 | 1793  | 1801 | 1181 |
| 45° | 1515 | 1479  | 1452 | 1463  | 1474 | 1169 |
| 55° | 1114 | 1084  | 1079 | 1097  | 1106 | 995  |
| 65° | 698  | 680   | 684  | 698   | 706  | 690  |
| 75° | 295  | 289   | 305  | 308   | 310  | 318  |
| 85° | 35   | 41    | 52   | 63    | 68   | 52   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2575.5 | 2575.5 | 2575.5 | 2575.5 | 2575.5 |
| 2.5°  | 2580.4 | 2573.4 | 2575.5 | 2562.6 | 2563.0 |
| 5°    | 2569.3 | 2561.0 | 2560.3 | 2543.6 | 2547.4 |
| 7.5°  | 2549.6 | 2539.4 | 2534.1 | 2514.6 | 2517.8 |
| 10°   | 2522.5 | 2509.3 | 2498.5 | 2474.3 | 2475.7 |
| 12.5° | 2487.5 | 2472.0 | 2454.3 | 2426.1 | 2428.1 |
| 15°   | 2444.2 | 2426.1 | 2400.7 | 2370.1 | 2370.9 |
| 17.5° | 2396.1 | 2375.8 | 2341.5 | 2308.6 | 2311.9 |
| 20°   | 2339.6 | 2316.5 | 2276.1 | 2242.0 | 2245.0 |
| 22.5° | 2276.8 | 2250.3 | 2207.5 | 2173.1 | 2173.8 |
| 25°   | 2209.6 | 2179.8 | 2132.3 | 2100.2 | 2101.3 |
| 27.5° | 2136.7 | 2103.4 | 2054.1 | 2024.4 | 2027.3 |
| 30°   | 2058.3 | 2023.0 | 1972.5 | 1948.2 | 1952.7 |
| 32.5° | 1975.9 | 1938.9 | 1889.3 | 1872.3 | 1879.9 |
| 35°   | 1890.3 | 1850.9 | 1802.6 | 1792.7 | 1801.4 |
| 37.5° | 1801.0 | 1762.2 | 1716.8 | 1714.0 | 1722.9 |
| 40°   | 1707.1 | 1669.6 | 1629.8 | 1631.7 | 1641.8 |
| 42.5° | 1612.2 | 1575.8 | 1541.8 | 1548.8 | 1559.6 |
| 45°   | 1515.4 | 1478.9 | 1451.9 | 1462.7 | 1474.2 |
| 47.5° | 1418.7 | 1382.4 | 1361.9 | 1375.6 | 1385.9 |
| 50°   | 1317.7 | 1284.2 | 1268.8 | 1284.7 | 1294.2 |
| 52.5° | 1214.9 | 1183.7 | 1174.5 | 1192.4 | 1205.4 |
| 55°   | 1114.1 | 1084.3 | 1078.7 | 1097.1 | 1106.4 |
| 57.5° | 1010.2 | 985.1  | 982.6  | 999.9  | 1009.5 |
| 60°   | 906.7  | 883.1  | 883.2  | 901.5  | 911.9  |
| 62.5° | 802.0  | 780.8  | 784.2  | 801.5  | 809.6  |
| 65°   | 697.8  | 680.1  | 683.9  | 698.2  | 706.4  |
| 67.5° | 594.6  | 578.6  | 585.9  | 601.6  | 605.7  |
| 70°   | 488.5  | 476.3  | 487.6  | 499.5  | 501.5  |
| 72.5° | 390.4  | 379.7  | 393.2  | 401.7  | 401.8  |
| 75°   | 295.3  | 288.7  | 304.7  | 308.5  | 309.8  |
| 77.5° | 208.9  | 208.3  | 220.3  | 224.4  | 226.4  |
| 80°   | 135.0  | 139.5  | 147.9  | 154.3  | 155.0  |
| 82.5° | 76.4   | 81.6   | 90.2   | 103.0  | 108.0  |
| 85°   | 35.4   | 40.8   | 52.0   | 63.1   | 67.8   |
| 87.5° | 11.9   | 16.0   | 22.0   | 23.9   | 22.7   |
| 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 | 17.66            | 19.24 | 18.02 | 19.55 | 19.87 | 17.74          | 19.33 | 18.11 | 19.64 | 19.95 |
|                 | 3H   | 19.13            | 20.55 | 19.51 | 20.88 | 21.24 | 19.26          | 20.69 | 19.64 | 21.02 | 21.38 |
|                 | 4H   | 19.56            | 20.90 | 19.96 | 21.24 | 21.62 | 19.72          | 21.06 | 20.12 | 21.41 | 21.79 |
|                 | 6H   | 19.77            | 21.01 | 20.18 | 21.37 | 21.77 | 19.98          | 21.21 | 20.39 | 21.58 | 21.97 |
|                 | 8H   | 19.80            | 20.98 | 20.23 | 21.37 | 21.77 | 20.04          | 21.22 | 20.46 | 21.61 | 22.01 |
|                 | 12H  | 19.80            | 20.93 | 20.23 | 21.31 | 21.74 | 20.08          | 21.21 | 20.51 | 21.59 | 22.02 |
| 4H              | 2H   | 18.20            | 19.53 | 18.60 | 19.88 | 20.26 | 18.27          | 19.61 | 18.67 | 19.95 | 20.33 |
|                 | 3H   | 19.85            | 20.96 | 20.26 | 21.36 | 21.76 | 19.98          | 21.09 | 20.39 | 21.49 | 21.89 |
|                 | 4H   | 20.37            | 21.37 | 20.80 | 21.78 | 22.22 | 20.54          | 21.54 | 20.97 | 21.95 | 22.39 |
|                 | 6H   | 20.66            | 21.53 | 21.11 | 21.97 | 22.43 | 20.88          | 21.75 | 21.33 | 22.19 | 22.65 |
|                 | 8H   | 20.71            | 21.52 | 21.17 | 21.96 | 22.43 | 20.97          | 21.79 | 21.43 | 22.23 | 22.69 |
|                 | 12H  | 20.72            | 21.45 | 21.20 | 21.93 | 22.40 | 21.04          | 21.77 | 21.52 | 22.25 | 22.72 |
| 8H              | 4H   | 20.56            | 21.38 | 21.03 | 21.82 | 22.29 | 20.72          | 21.53 | 21.18 | 21.98 | 22.44 |
|                 | 6H   | 20.92            | 21.59 | 21.41 | 22.08 | 22.56 | 21.13          | 21.80 | 21.62 | 22.29 | 22.77 |
|                 | 8H   | 20.99            | 21.60 | 21.51 | 22.10 | 22.59 | 21.26          | 21.87 | 21.77 | 22.37 | 22.86 |
|                 | 12H  | 21.03            | 21.57 | 21.54 | 22.06 | 22.62 | 21.38          | 21.91 | 21.89 | 22.40 | 22.97 |
| 12H             | 4H   | 20.57            | 21.30 | 21.05 | 21.77 | 22.24 | 20.72          | 21.45 | 21.20 | 21.92 | 22.39 |
|                 | 6H   | 20.92            | 21.53 | 21.44 | 22.04 | 22.52 | 21.13          | 21.73 | 21.64 | 22.24 | 22.73 |
|                 | 8H   | 21.04            | 21.57 | 21.54 | 22.06 | 22.62 | 21.30          | 21.83 | 21.81 | 22.33 | 22.89 |