

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: P1498276

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

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498276  
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-2-120-1STD-LO-40-90-VRDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 STD ambient , LO exam illumination levels  
Light Source: -  
Ballast/Driver: -

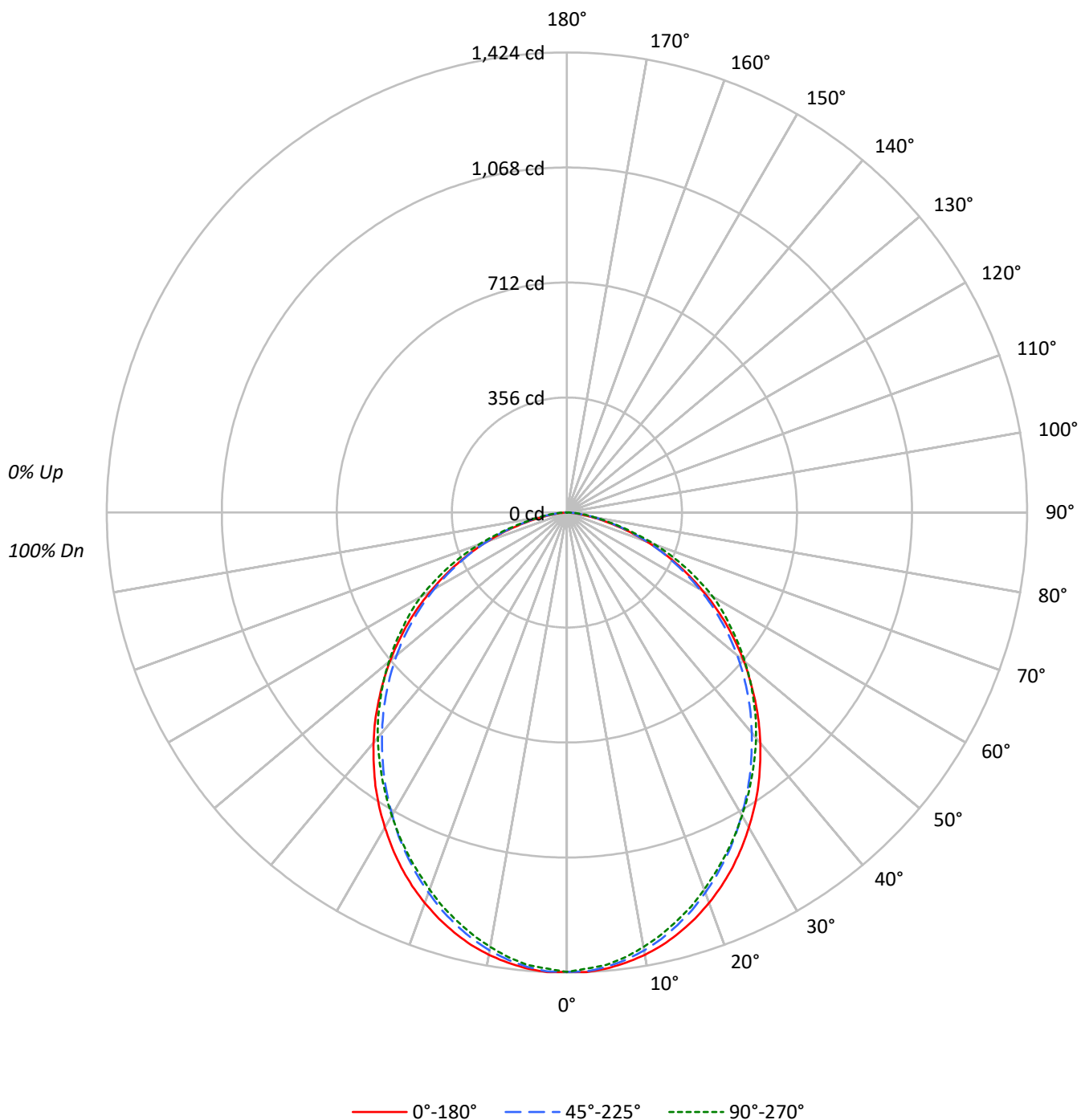
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3419.0 lumens  
Efficiency: N/A  
Efficacy: 81.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.9  
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  | 57  | 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  | 43  | 41  |    |    |
| 7   | 67  | 53  | 45  | 39  | 65  | 53  | 45  | 39  | 51  | 44  | 39  | 50  | 43  | 38  | 48  | 42  | 38  | 36  |    |    |
| 8   | 62  | 49  | 41  | 35  | 61  | 48  | 40  | 35  | 47  | 40  | 35  | 46  | 39  | 34  | 45  | 39  | 34  | 32  |    |    |
| 9   | 58  | 45  | 37  | 32  | 57  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 31  | 29  |    |    |
| 10  | 55  | 42  | 34  | 29  | 53  | 41  | 34  | 29  | 40  | 33  | 29  | 39  | 33  | 28  | 38  | 32  | 28  | 27  |    |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3826 | 3826 | 3826 |
| 5°  | 3827 | 3814 | 3797 |
| 10° | 3799 | 3762 | 3732 |
| 15° | 3750 | 3683 | 3649 |
| 20° | 3683 | 3585 | 3556 |
| 25° | 3600 | 3479 | 3461 |
| 30° | 3499 | 3359 | 3367 |
| 35° | 3393 | 3246 | 3279 |
| 40° | 3271 | 3126 | 3198 |
| 45° | 3134 | 3007 | 3106 |
| 50° | 2990 | 2879 | 3010 |
| 55° | 2822 | 2728 | 2905 |
| 60° | 2615 | 2554 | 2808 |
| 65° | 2376 | 2323 | 2588 |
| 70° | 2059 | 2076 | 2272 |
| 75° | 1639 | 1742 | 1812 |
| 80° | 1130 | 1311 | 1387 |
| 85° | 627  | 976  | 1247 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3134 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 133.5  | 3.9       |
| 10°-20°   | 373.0  | 10.9      |
| 20°-30°   | 543.0  | 15.9      |
| 30°-40°   | 626.2  | 18.3      |
| 40°-50°   | 621.0  | 18.2      |
| 50°-60°   | 532.4  | 15.6      |
| 60°-70°   | 374.2  | 10.9      |
| 70°-80°   | 178.3  | 5.2       |
| 80°-90°   | 37.4   | 1.1       |
| 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°    | 1049.5 | 30.7      |
| 0°-40°    | 1675.7 | 49.0      |
| 0°-60°    | 2829.1 | 82.7      |
| 0°-90°    | 3419.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3419.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1422 | 1422  | 1422 | 1422  | 1422 |      |
| 5°  | 1417 | 1416  | 1412 | 1403  | 1406 | 134  |
| 15° | 1346 | 1340  | 1322 | 1307  | 1310 | 379  |
| 25° | 1212 | 1197  | 1172 | 1161  | 1166 | 558  |
| 35° | 1033 | 1012  | 988  | 989   | 998  | 645  |
| 45° | 824  | 805   | 790  | 805   | 816  | 635  |
| 55° | 601  | 584   | 582  | 604   | 619  | 537  |
| 65° | 373  | 360   | 365  | 394   | 406  | 369  |
| 75° | 158  | 152   | 168  | 176   | 174  | 170  |
| 85° | 20   | 24    | 32   | 38    | 40   | 29   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1421.9 | 1421.9 | 1421.9 | 1421.9 | 1421.9 |
| 2.5°  | 1423.6 | 1424.7 | 1421.9 | 1411.7 | 1413.2 |
| 5°    | 1416.9 | 1415.6 | 1411.8 | 1402.7 | 1405.8 |
| 7.5°  | 1405.5 | 1403.7 | 1396.8 | 1386.3 | 1388.4 |
| 10°   | 1390.4 | 1386.9 | 1376.7 | 1363.7 | 1365.7 |
| 12.5° | 1370.8 | 1366.2 | 1352.2 | 1337.7 | 1340.0 |
| 15°   | 1346.2 | 1339.6 | 1321.9 | 1307.3 | 1309.7 |
| 17.5° | 1318.0 | 1310.9 | 1289.7 | 1273.8 | 1278.7 |
| 20°   | 1286.1 | 1276.1 | 1252.0 | 1237.5 | 1241.9 |
| 22.5° | 1251.1 | 1238.4 | 1213.4 | 1199.7 | 1203.8 |
| 25°   | 1212.4 | 1196.9 | 1171.7 | 1161.0 | 1165.6 |
| 27.5° | 1170.6 | 1153.7 | 1128.4 | 1119.0 | 1125.6 |
| 30°   | 1126.2 | 1108.1 | 1081.0 | 1076.3 | 1083.5 |
| 32.5° | 1080.6 | 1061.6 | 1035.2 | 1034.0 | 1041.3 |
| 35°   | 1032.9 | 1011.9 | 988.1  | 989.4  | 998.2  |
| 37.5° | 981.7  | 961.8  | 938.5  | 946.1  | 954.6  |
| 40°   | 931.2  | 910.5  | 890.0  | 900.4  | 910.3  |
| 42.5° | 878.6  | 858.8  | 840.7  | 853.3  | 864.8  |
| 45°   | 823.6  | 805.3  | 790.2  | 805.1  | 816.1  |
| 47.5° | 768.6  | 750.3  | 739.3  | 756.0  | 768.6  |
| 50°   | 714.1  | 696.8  | 687.7  | 706.7  | 719.1  |
| 52.5° | 657.0  | 640.4  | 635.6  | 655.3  | 670.4  |
| 55°   | 601.4  | 584.5  | 581.5  | 603.8  | 619.3  |
| 57.5° | 544.2  | 531.0  | 528.6  | 553.5  | 572.4  |
| 60°   | 485.9  | 472.7  | 474.5  | 504.3  | 521.7  |
| 62.5° | 429.1  | 416.0  | 418.9  | 452.2  | 463.9  |
| 65°   | 373.2  | 360.1  | 364.8  | 393.8  | 406.4  |
| 67.5° | 318.1  | 305.9  | 315.2  | 341.8  | 349.8  |
| 70°   | 261.7  | 250.9  | 263.8  | 285.5  | 288.8  |
| 72.5° | 209.0  | 199.6  | 215.6  | 229.6  | 229.5  |
| 75°   | 157.6  | 152.2  | 167.5  | 175.6  | 174.3  |
| 77.5° | 112.7  | 109.9  | 123.1  | 127.6  | 126.7  |
| 80°   | 72.9   | 74.6   | 84.6   | 87.7   | 89.5   |
| 82.5° | 42.4   | 45.9   | 53.5   | 61.6   | 63.4   |
| 85°   | 20.3   | 24.5   | 31.6   | 37.9   | 40.4   |
| 87.5° | 7.0    | 9.8    | 13.1   | 14.5   | 14.1   |
| 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 | 15.44            | 17.03 | 15.81 | 17.34 | 17.65 | 15.75          | 17.34 | 16.12 | 17.65 | 17.96 |
|                 | 3H   | 16.88            | 18.31 | 17.26 | 18.63 | 18.99 | 17.36          | 18.78 | 17.73 | 19.11 | 19.47 |
|                 | 4H   | 17.30            | 18.64 | 17.70 | 18.99 | 19.37 | 17.82          | 19.16 | 18.22 | 19.51 | 19.88 |
|                 | 6H   | 17.52            | 18.76 | 17.93 | 19.12 | 19.51 | 18.08          | 19.31 | 18.49 | 19.68 | 20.07 |
|                 | 8H   | 17.55            | 18.73 | 17.98 | 19.12 | 19.52 | 18.15          | 19.33 | 18.57 | 19.72 | 20.12 |
|                 | 12H  | 17.55            | 18.68 | 17.98 | 19.07 | 19.49 | 18.20          | 19.33 | 18.63 | 19.71 | 20.14 |
| 4H              | 2H   | 15.97            | 17.31 | 16.37 | 17.66 | 18.03 | 16.23          | 17.56 | 16.62 | 17.91 | 18.29 |
|                 | 3H   | 17.59            | 18.71 | 18.00 | 19.11 | 19.51 | 18.03          | 19.14 | 18.44 | 19.54 | 19.94 |
|                 | 4H   | 18.10            | 19.10 | 18.53 | 19.52 | 19.95 | 18.60          | 19.61 | 19.03 | 20.02 | 20.46 |
|                 | 6H   | 18.39            | 19.27 | 18.85 | 19.71 | 20.17 | 18.95          | 19.83 | 19.41 | 20.27 | 20.73 |
|                 | 8H   | 18.45            | 19.26 | 18.91 | 19.70 | 20.17 | 19.06          | 19.87 | 19.52 | 20.31 | 20.78 |
|                 | 12H  | 18.47            | 19.20 | 18.95 | 19.67 | 20.14 | 19.14          | 19.87 | 19.62 | 20.34 | 20.81 |
| 8H              | 4H   | 18.32            | 19.13 | 18.78 | 19.58 | 20.04 | 18.77          | 19.59 | 19.24 | 20.03 | 20.50 |
|                 | 6H   | 18.67            | 19.35 | 19.17 | 19.84 | 20.31 | 19.20          | 19.87 | 19.69 | 20.36 | 20.84 |
|                 | 8H   | 18.76            | 19.36 | 19.27 | 19.87 | 20.36 | 19.35          | 19.95 | 19.86 | 20.46 | 20.95 |
|                 | 12H  | 18.81            | 19.34 | 19.32 | 19.83 | 20.40 | 19.48          | 20.02 | 19.99 | 20.51 | 21.07 |
| 12H             | 4H   | 18.33            | 19.06 | 18.81 | 19.53 | 20.00 | 18.77          | 19.50 | 19.25 | 19.98 | 20.45 |
|                 | 6H   | 18.69            | 19.29 | 19.20 | 19.80 | 20.29 | 19.20          | 19.80 | 19.71 | 20.31 | 20.80 |
|                 | 8H   | 18.81            | 19.35 | 19.32 | 19.84 | 20.40 | 19.39          | 19.92 | 19.90 | 20.42 | 20.98 |