

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: P1498435

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

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498435  
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-2-120-2LO-HI-30-VRDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 LO ambient , HI exam illumination levels  
Light Source: -  
Ballast/Driver: -

**Summary**

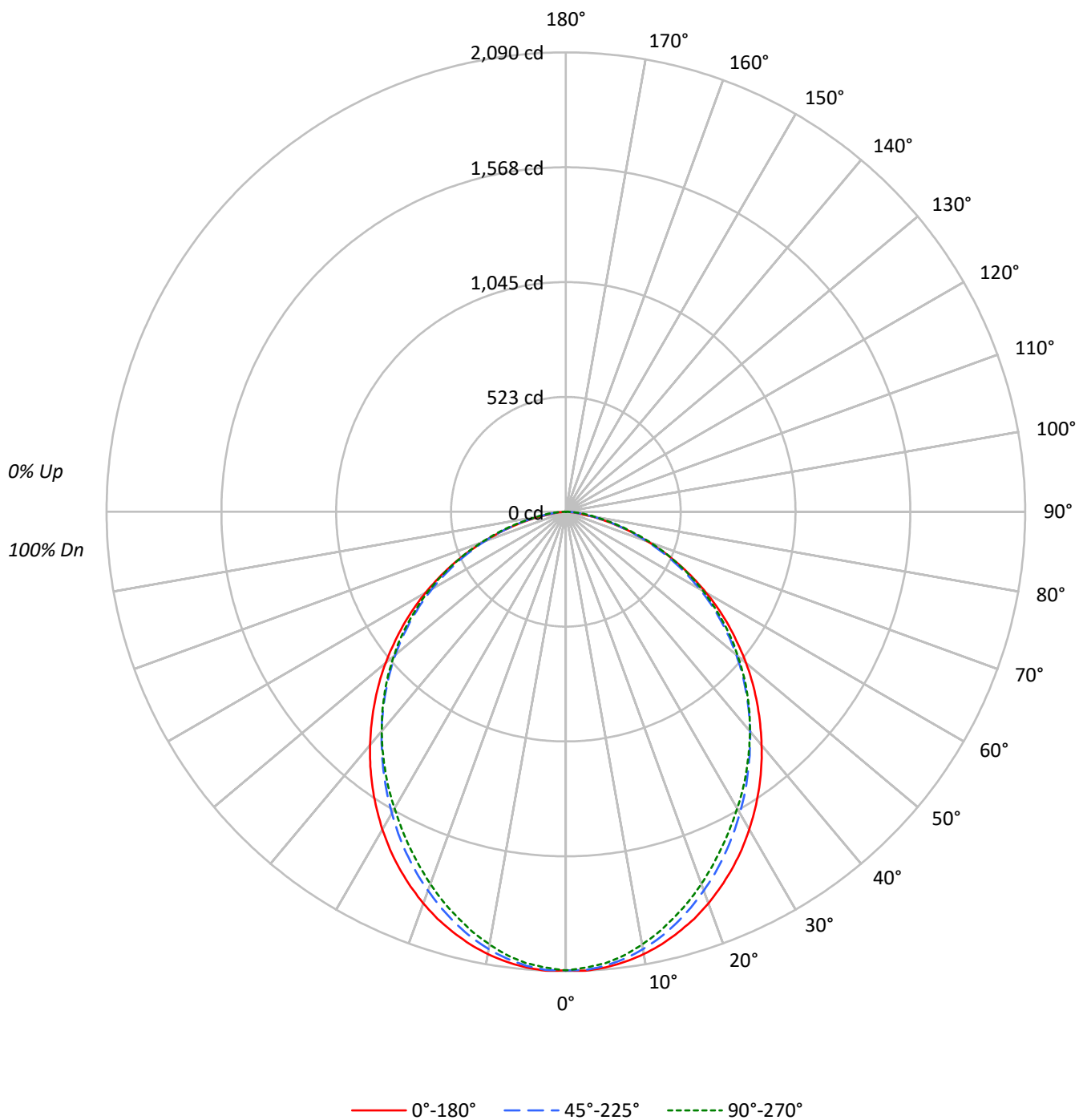
Lumens per Lamp: N/A  
Luminaire Lumens: 5012.0 lumens  
Efficiency: N/A  
Efficacy: 74.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 67  
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 | 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  | 60  | 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°  | 5614 | 5614 | 5614 |
| 5°  | 5622 | 5601 | 5569 |
| 10° | 5584 | 5523 | 5463 |
| 15° | 5517 | 5401 | 5318 |
| 20° | 5430 | 5253 | 5161 |
| 25° | 5319 | 5094 | 4995 |
| 30° | 5187 | 4921 | 4844 |
| 35° | 5038 | 4747 | 4710 |
| 40° | 4867 | 4581 | 4577 |
| 45° | 4683 | 4414 | 4439 |
| 50° | 4481 | 4237 | 4276 |
| 55° | 4248 | 4031 | 4093 |
| 60° | 3969 | 3783 | 3883 |
| 65° | 3619 | 3471 | 3601 |
| 70° | 3136 | 3087 | 3222 |
| 75° | 2512 | 2599 | 2720 |
| 80° | 1723 | 1954 | 2132 |
| 85° | 911  | 1430 | 1899 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4683 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 195.9  | 3.9       |
| 10°-20°   | 546.2  | 10.9      |
| 20°-30°   | 794.0  | 15.8      |
| 30°-40°   | 915.6  | 18.3      |
| 40°-50°   | 908.9  | 18.1      |
| 50°-60°   | 779.8  | 15.6      |
| 60°-70°   | 549.2  | 11.0      |
| 70°-80°   | 266.5  | 5.3       |
| 80°-90°   | 56.0   | 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       |
| <hr/>     |        |           |
| 0°-30°    | 1536.1 | 30.6      |
| 0°-40°    | 2451.7 | 48.9      |
| 0°-60°    | 4140.3 | 82.6      |
| 0°-90°    | 5012.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5012.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2086 | 2086  | 2086 | 2086  | 2086 |      |
| 5°  | 2081 | 2075  | 2073 | 2058  | 2062 | 197  |
| 15° | 1980 | 1965  | 1939 | 1909  | 1909 | 558  |
| 25° | 1791 | 1763  | 1716 | 1683  | 1682 | 825  |
| 35° | 1534 | 1496  | 1445 | 1430  | 1434 | 958  |
| 45° | 1230 | 1194  | 1160 | 1161  | 1166 | 949  |
| 55° | 906  | 875   | 859  | 867   | 872  | 809  |
| 65° | 568  | 548   | 545  | 558   | 566  | 562  |
| 75° | 242  | 233   | 250  | 258   | 262  | 260  |
| 85° | 30   | 35    | 46   | 57    | 62   | 43   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2086.4 | 2086.4 | 2086.4 | 2086.4 | 2086.4 |
| 2.5°  | 2090.0 | 2085.6 | 2086.4 | 2074.5 | 2075.7 |
| 5°    | 2081.3 | 2075.3 | 2073.3 | 2058.1 | 2061.6 |
| 7.5°  | 2065.4 | 2057.5 | 2051.1 | 2033.1 | 2035.7 |
| 10°   | 2043.6 | 2033.0 | 2021.2 | 1998.4 | 1999.4 |
| 12.5° | 2015.3 | 2002.3 | 1983.7 | 1956.9 | 1958.1 |
| 15°   | 1980.4 | 1964.9 | 1938.8 | 1909.1 | 1909.0 |
| 17.5° | 1941.7 | 1923.5 | 1889.1 | 1856.9 | 1858.8 |
| 20°   | 1896.3 | 1875.2 | 1834.5 | 1801.2 | 1802.3 |
| 22.5° | 1845.6 | 1821.1 | 1777.6 | 1743.8 | 1742.8 |
| 25°   | 1791.3 | 1763.2 | 1715.5 | 1683.1 | 1682.3 |
| 27.5° | 1732.5 | 1701.2 | 1650.8 | 1620.4 | 1620.7 |
| 30°   | 1669.3 | 1635.6 | 1583.8 | 1557.4 | 1558.9 |
| 32.5° | 1602.7 | 1567.4 | 1516.0 | 1494.8 | 1498.4 |
| 35°   | 1533.5 | 1495.7 | 1445.1 | 1429.6 | 1433.8 |
| 37.5° | 1461.2 | 1423.8 | 1375.0 | 1365.0 | 1369.2 |
| 40°   | 1385.5 | 1348.7 | 1304.2 | 1297.9 | 1302.9 |
| 42.5° | 1308.7 | 1272.7 | 1232.8 | 1230.4 | 1235.9 |
| 45°   | 1230.5 | 1194.1 | 1159.9 | 1160.6 | 1166.4 |
| 47.5° | 1151.9 | 1116.0 | 1087.2 | 1090.3 | 1095.5 |
| 50°   | 1070.4 | 1036.5 | 1012.0 | 1017.2 | 1021.4 |
| 52.5° | 986.8  | 955.1  | 936.2  | 943.0  | 950.3  |
| 55°   | 905.5  | 874.6  | 859.2  | 867.1  | 872.4  |
| 57.5° | 821.3  | 794.5  | 782.2  | 790.7  | 796.8  |
| 60°   | 737.4  | 712.1  | 702.9  | 713.9  | 721.5  |
| 62.5° | 652.5  | 629.2  | 624.3  | 636.7  | 643.9  |
| 65°   | 568.3  | 547.8  | 545.1  | 558.3  | 565.5  |
| 67.5° | 484.3  | 466.1  | 468.4  | 484.4  | 488.8  |
| 70°   | 398.6  | 383.6  | 392.3  | 406.0  | 409.5  |
| 72.5° | 318.7  | 306.1  | 319.1  | 330.8  | 332.9  |
| 75°   | 241.6  | 233.3  | 250.0  | 258.5  | 261.6  |
| 77.5° | 171.4  | 169.1  | 183.7  | 192.2  | 195.9  |
| 80°   | 111.2  | 114.5  | 126.1  | 135.6  | 137.6  |
| 82.5° | 63.3   | 68.3   | 79.3   | 92.0   | 97.0   |
| 85°   | 29.5   | 34.9   | 46.3   | 56.8   | 61.5   |
| 87.5° | 10.0   | 13.8   | 19.7   | 21.5   | 20.5   |
| 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 | 16.93            | 18.51 | 17.29 | 18.82 | 19.14 | 16.86          | 18.45 | 17.23 | 18.76 | 19.08 |
|                 | 3H   | 18.41            | 19.83 | 18.78 | 20.16 | 20.52 | 18.45          | 19.87 | 18.83 | 20.20 | 20.56 |
|                 | 4H   | 18.84            | 20.18 | 19.24 | 20.53 | 20.91 | 18.95          | 20.29 | 19.35 | 20.64 | 21.02 |
|                 | 6H   | 19.06            | 20.30 | 19.47 | 20.67 | 21.06 | 19.26          | 20.50 | 19.67 | 20.86 | 21.25 |
|                 | 8H   | 19.09            | 20.28 | 19.52 | 20.67 | 21.06 | 19.34          | 20.52 | 19.77 | 20.91 | 21.31 |
|                 | 12H  | 19.10            | 20.23 | 19.53 | 20.61 | 21.04 | 19.40          | 20.53 | 19.83 | 20.91 | 21.34 |
| 4H              | 2H   | 17.45            | 18.79 | 17.85 | 19.14 | 19.51 | 17.40          | 18.74 | 17.80 | 19.09 | 19.46 |
|                 | 3H   | 19.11            | 20.23 | 19.52 | 20.63 | 21.03 | 19.18          | 20.29 | 19.59 | 20.69 | 21.09 |
|                 | 4H   | 19.64            | 20.64 | 20.07 | 21.06 | 21.49 | 19.79          | 20.79 | 20.22 | 21.21 | 21.65 |
|                 | 6H   | 19.94            | 20.81 | 20.39 | 21.25 | 21.71 | 20.19          | 21.07 | 20.65 | 21.51 | 21.97 |
|                 | 8H   | 19.99            | 20.81 | 20.45 | 21.25 | 21.72 | 20.31          | 21.13 | 20.77 | 21.57 | 22.04 |
|                 | 12H  | 20.01            | 20.74 | 20.49 | 21.22 | 21.69 | 20.40          | 21.13 | 20.88 | 21.61 | 22.08 |
| 8H              | 4H   | 19.84            | 20.66 | 20.31 | 21.10 | 21.57 | 19.98          | 20.80 | 20.45 | 21.24 | 21.71 |
|                 | 6H   | 20.21            | 20.89 | 20.71 | 21.38 | 21.85 | 20.47          | 21.14 | 20.96 | 21.63 | 22.11 |
|                 | 8H   | 20.29            | 20.90 | 20.80 | 21.41 | 21.89 | 20.63          | 21.24 | 21.14 | 21.75 | 22.23 |
|                 | 12H  | 20.34            | 20.87 | 20.85 | 21.36 | 21.93 | 20.78          | 21.31 | 21.29 | 21.81 | 22.37 |
| 12H             | 4H   | 19.85            | 20.58 | 20.33 | 21.06 | 21.53 | 19.98          | 20.72 | 20.47 | 21.19 | 21.66 |
|                 | 6H   | 20.23            | 20.83 | 20.74 | 21.34 | 21.83 | 20.47          | 21.08 | 20.98 | 21.58 | 22.07 |
|                 | 8H   | 20.35            | 20.88 | 20.85 | 21.37 | 21.93 | 20.68          | 21.21 | 21.19 | 21.71 | 22.27 |