

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: P1498260

Luminaire Tested: MAE-G-2-120-1STD-HI-50-90

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498260  
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-HI-50-90  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient , HI exam illumination levels  
Light Source: -  
Ballast/Driver: -

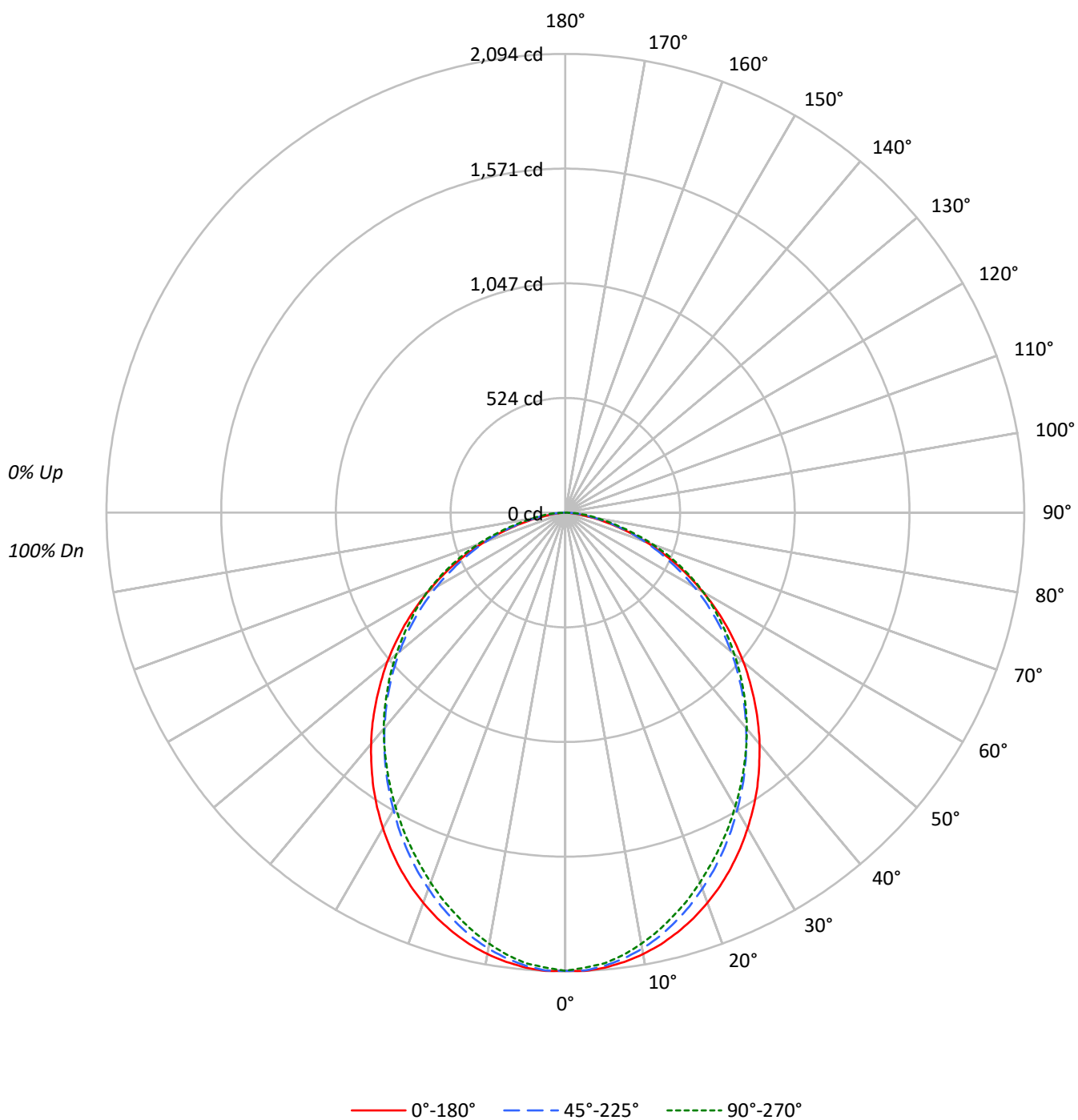
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4975.0 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 59.9  
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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 98  | 95  | 93  |  | 95  | 92  | 90  |  | 91  |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 77  |  | 84  | 79  | 76  |  | 81  |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  |  | 74  | 69  | 64  |  | 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  | 39  |  | 50  | 43  | 38  |  | 48  |
| 8   | 62  | 49  | 41  | 35  | 61  | 48  | 40  | 35  | 47  | 40  | 35  |  | 46  | 39  | 34  |  | 45  |
| 9   | 58  | 45  | 37  | 32  | 57  | 44  | 37  | 31  | 43  | 36  | 31  |  | 42  | 36  | 31  |  | 41  |
| 10  | 55  | 42  | 34  | 29  | 53  | 41  | 34  | 29  | 40  | 33  | 29  |  | 39  | 33  | 28  |  | 38  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5629 | 5629 | 5629 |
| 5°  | 5631 | 5608 | 5577 |
| 10° | 5592 | 5523 | 5460 |
| 15° | 5523 | 5391 | 5308 |
| 20° | 5429 | 5231 | 5144 |
| 25° | 5311 | 5059 | 4978 |
| 30° | 5170 | 4871 | 4816 |
| 35° | 5018 | 4693 | 4666 |
| 40° | 4844 | 4509 | 4526 |
| 45° | 4649 | 4327 | 4374 |
| 50° | 4441 | 4134 | 4215 |
| 55° | 4199 | 3913 | 4056 |
| 60° | 3904 | 3660 | 3925 |
| 65° | 3559 | 3344 | 3691 |
| 70° | 3094 | 3031 | 3354 |
| 75° | 2477 | 2625 | 2854 |
| 80° | 1722 | 2092 | 2359 |
| 85° | 966  | 1639 | 2174 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 4649 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 196.2  | 3.9       |
| 10°-20°   | 545.7  | 11.0      |
| 20°-30°   | 790.5  | 15.9      |
| 30°-40°   | 907.3  | 18.2      |
| 40°-50°   | 895.8  | 18.0      |
| 50°-60°   | 765.6  | 15.4      |
| 60°-70°   | 542.4  | 10.9      |
| 70°-80°   | 270.1  | 5.4       |
| 80°-90°   | 61.4   | 1.2       |
| 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°    | 1532.4 | 30.8      |
| 0°-40°    | 2439.7 | 49.0      |
| 0°-60°    | 4101.0 | 82.4      |
| 0°-90°    | 4975.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4975.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2092 | 2092  | 2092 | 2092  | 2092 |      |
| 5°  | 2085 | 2083  | 2076 | 2060  | 2065 | 198  |
| 15° | 1982 | 1970  | 1935 | 1904  | 1905 | 559  |
| 25° | 1789 | 1759  | 1704 | 1674  | 1676 | 823  |
| 35° | 1528 | 1486  | 1429 | 1414  | 1420 | 954  |
| 45° | 1222 | 1182  | 1137 | 1141  | 1149 | 942  |
| 55° | 895  | 858   | 834  | 850   | 864  | 799  |
| 65° | 559  | 530   | 525  | 563   | 580  | 553  |
| 75° | 238  | 226   | 252  | 272   | 274  | 257  |
| 85° | 31   | 39    | 53   | 65    | 70   | 44   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2091.7 | 2091.7 | 2091.7 | 2091.7 | 2091.7 |
| 2.5°  | 2094.0 | 2096.0 | 2091.7 | 2075.3 | 2078.6 |
| 5°    | 2084.7 | 2083.1 | 2076.1 | 2059.7 | 2064.6 |
| 7.5°  | 2068.2 | 2065.0 | 2052.5 | 2032.8 | 2035.8 |
| 10°   | 2046.4 | 2040.0 | 2021.1 | 1996.1 | 1998.3 |
| 12.5° | 2018.0 | 2009.0 | 1982.1 | 1953.1 | 1955.2 |
| 15°   | 1982.4 | 1969.8 | 1935.0 | 1903.7 | 1905.3 |
| 17.5° | 1941.8 | 1926.7 | 1884.3 | 1850.0 | 1854.6 |
| 20°   | 1895.8 | 1875.6 | 1826.5 | 1793.2 | 1796.4 |
| 22.5° | 1844.8 | 1819.8 | 1767.6 | 1734.7 | 1736.4 |
| 25°   | 1788.7 | 1758.6 | 1704.0 | 1674.2 | 1676.5 |
| 27.5° | 1728.4 | 1695.0 | 1638.0 | 1610.0 | 1614.4 |
| 30°   | 1663.9 | 1627.7 | 1567.7 | 1545.2 | 1549.9 |
| 32.5° | 1597.5 | 1558.8 | 1499.1 | 1481.1 | 1485.9 |
| 35°   | 1527.6 | 1485.6 | 1428.6 | 1414.2 | 1420.5 |
| 37.5° | 1453.0 | 1412.1 | 1355.4 | 1349.0 | 1354.7 |
| 40°   | 1378.9 | 1336.6 | 1283.5 | 1281.0 | 1288.4 |
| 42.5° | 1301.7 | 1260.6 | 1211.0 | 1211.6 | 1220.5 |
| 45°   | 1221.7 | 1181.6 | 1136.9 | 1141.0 | 1149.3 |
| 47.5° | 1140.9 | 1101.6 | 1062.9 | 1069.4 | 1079.9 |
| 50°   | 1060.9 | 1022.6 | 987.5  | 997.6  | 1006.8 |
| 52.5° | 976.4  | 940.1  | 911.9  | 923.3  | 936.7  |
| 55°   | 895.1  | 858.2  | 834.0  | 849.5  | 864.5  |
| 57.5° | 810.8  | 779.4  | 757.7  | 778.6  | 798.2  |
| 60°   | 725.4  | 694.7  | 680.0  | 709.6  | 729.2  |
| 62.5° | 641.5  | 611.5  | 601.4  | 638.8  | 654.5  |
| 65°   | 559.0  | 529.7  | 525.1  | 562.9  | 579.6  |
| 67.5° | 476.6  | 450.3  | 455.4  | 493.8  | 505.6  |
| 70°   | 393.2  | 369.5  | 385.2  | 418.9  | 426.3  |
| 72.5° | 314.4  | 294.8  | 318.8  | 344.8  | 348.2  |
| 75°   | 238.2  | 225.5  | 252.5  | 272.0  | 274.5  |
| 77.5° | 170.7  | 164.1  | 190.3  | 205.4  | 208.6  |
| 80°   | 111.1  | 113.5  | 135.0  | 147.6  | 152.2  |
| 82.5° | 65.0   | 71.2   | 88.5   | 104.5  | 109.3  |
| 85°   | 31.3   | 38.8   | 53.1   | 65.2   | 70.4   |
| 87.5° | 10.7   | 15.7   | 22.4   | 24.9   | 24.2   |
| 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 | 16.83            | 18.41 | 17.19 | 18.72 | 19.04 | 16.81          | 18.39 | 17.17 | 18.71 | 19.02 |
|                 | 3H   | 18.29            | 19.71 | 18.66 | 20.04 | 20.40 | 18.51          | 19.94 | 18.89 | 20.26 | 20.62 |
|                 | 4H   | 18.72            | 20.06 | 19.12 | 20.41 | 20.79 | 19.06          | 20.40 | 19.46 | 20.75 | 21.13 |
|                 | 6H   | 18.95            | 20.19 | 19.36 | 20.55 | 20.94 | 19.41          | 20.65 | 19.82 | 21.02 | 21.41 |
|                 | 8H   | 18.99            | 20.17 | 19.41 | 20.56 | 20.96 | 19.52          | 20.70 | 19.95 | 21.09 | 21.49 |
|                 | 12H  | 18.99            | 20.12 | 19.42 | 20.51 | 20.93 | 19.60          | 20.73 | 20.03 | 21.11 | 21.54 |
| 4H              | 2H   | 17.32            | 18.66 | 17.72 | 19.01 | 19.39 | 17.31          | 18.65 | 17.71 | 19.00 | 19.37 |
|                 | 3H   | 18.97            | 20.09 | 19.38 | 20.49 | 20.89 | 19.22          | 20.33 | 19.63 | 20.73 | 21.13 |
|                 | 4H   | 19.50            | 20.50 | 19.93 | 20.92 | 21.35 | 19.89          | 20.90 | 20.32 | 21.31 | 21.75 |
|                 | 6H   | 19.81            | 20.68 | 20.26 | 21.12 | 21.58 | 20.35          | 21.23 | 20.81 | 21.67 | 22.13 |
|                 | 8H   | 19.86            | 20.68 | 20.33 | 21.13 | 21.59 | 20.50          | 21.32 | 20.96 | 21.76 | 22.23 |
|                 | 12H  | 19.89            | 20.62 | 20.37 | 21.10 | 21.57 | 20.62          | 21.35 | 21.10 | 21.83 | 22.30 |
| 8H              | 4H   | 19.73            | 20.55 | 20.19 | 20.99 | 21.46 | 20.08          | 20.90 | 20.55 | 21.35 | 21.81 |
|                 | 6H   | 20.11            | 20.79 | 20.60 | 21.28 | 21.75 | 20.64          | 21.31 | 21.13 | 21.80 | 22.28 |
|                 | 8H   | 20.20            | 20.81 | 20.71 | 21.32 | 21.80 | 20.85          | 21.45 | 21.36 | 21.96 | 22.45 |
|                 | 12H  | 20.26            | 20.80 | 20.77 | 21.29 | 21.85 | 21.03          | 21.57 | 21.54 | 22.06 | 22.62 |
| 12H             | 4H   | 19.75            | 20.48 | 20.23 | 20.96 | 21.43 | 20.08          | 20.82 | 20.57 | 21.29 | 21.77 |
|                 | 6H   | 20.14            | 20.75 | 20.65 | 21.25 | 21.74 | 20.65          | 21.25 | 21.16 | 21.76 | 22.25 |
|                 | 8H   | 20.27            | 20.81 | 20.78 | 21.30 | 21.86 | 20.90          | 21.44 | 21.41 | 21.93 | 22.49 |