

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: P1498480

Luminaire Tested: MAE-G-2-120-2LO-STD-30-90-VRDCPH

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498480  
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-STD-30-90-VRDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 LO ambient , STD exam illumination levels  
Light Source: -  
Ballast/Driver: -

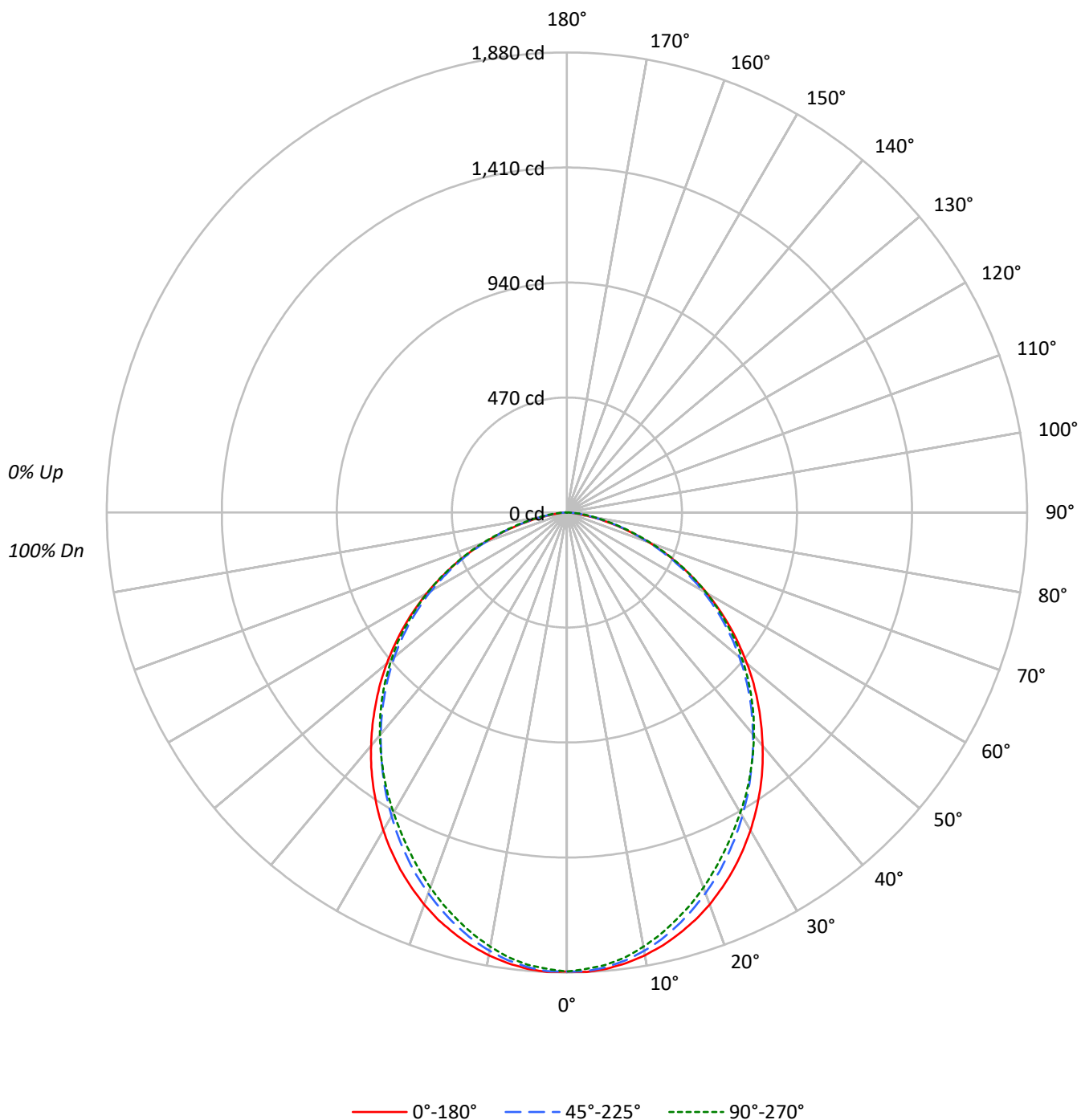
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4528.0 lumens  
Efficiency: N/A  
Efficacy: 76.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 59.3  
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  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| 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  | 84  | 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  | 63  | 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  | 43  | 41  |
| 7   | 67  | 53  | 45  | 39  | 65  | 53  | 45  | 39  | 51  | 44  | 38  |  | 50  | 43  | 38  |  | 48  | 42  | 38  | 36  |
| 8   | 62  | 49  | 41  | 35  | 61  | 48  | 40  | 35  | 47  | 40  | 35  |  | 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  | 55  | 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°  | 5048 | 5048 | 5048 |
| 5°  | 5055 | 5037 | 5011 |
| 10° | 5021 | 4971 | 4923 |
| 15° | 4960 | 4867 | 4802 |
| 20° | 4881 | 4741 | 4670 |
| 25° | 4780 | 4602 | 4529 |
| 30° | 4660 | 4453 | 4401 |
| 35° | 4525 | 4300 | 4288 |
| 40° | 4370 | 4155 | 4175 |
| 45° | 4203 | 4008 | 4058 |
| 50° | 4021 | 3851 | 3916 |
| 55° | 3811 | 3668 | 3751 |
| 60° | 3559 | 3444 | 3550 |
| 65° | 3242 | 3156 | 3265 |
| 70° | 2806 | 2788 | 2881 |
| 75° | 2244 | 2316 | 2377 |
| 80° | 1531 | 1694 | 1799 |
| 85° | 803  | 1204 | 1581 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4203 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 176.3  | 3.9       |
| 10°-20°   | 492.2  | 10.9      |
| 20°-30°   | 717.0  | 15.8      |
| 30°-40°   | 828.5  | 18.3      |
| 40°-50°   | 824.1  | 18.2      |
| 50°-60°   | 708.1  | 15.6      |
| 60°-70°   | 497.0  | 11.0      |
| 70°-80°   | 237.0  | 5.2       |
| 80°-90°   | 47.9   | 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°    | 1385.4 | 30.6      |
| 0°-40°    | 2213.9 | 48.9      |
| 0°-60°    | 3746.1 | 82.7      |
| 0°-90°    | 4528.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4528.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1876 | 1876  | 1876 | 1876  | 1876 |      |
| 5°  | 1872 | 1866  | 1865 | 1852  | 1855 | 178  |
| 15° | 1780 | 1767  | 1747 | 1723  | 1724 | 502  |
| 25° | 1610 | 1587  | 1550 | 1525  | 1525 | 741  |
| 35° | 1377 | 1347  | 1309 | 1300  | 1305 | 861  |
| 45° | 1104 | 1076  | 1053 | 1059  | 1066 | 852  |
| 55° | 812  | 789   | 782  | 793   | 800  | 725  |
| 65° | 509  | 494   | 496  | 507   | 513  | 503  |
| 75° | 216  | 210   | 223  | 227   | 229  | 232  |
| 85° | 26   | 30    | 39   | 47    | 51   | 38   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1876.0 | 1876.0 | 1876.0 | 1876.0 | 1876.0 |
| 2.5°  | 1879.5 | 1874.7 | 1876.0 | 1866.2 | 1866.7 |
| 5°    | 1871.5 | 1865.6 | 1864.7 | 1852.0 | 1854.9 |
| 7.5°  | 1857.2 | 1849.8 | 1845.3 | 1830.6 | 1832.9 |
| 10°   | 1837.4 | 1827.8 | 1819.2 | 1800.6 | 1801.6 |
| 12.5° | 1811.9 | 1800.5 | 1786.5 | 1764.8 | 1766.2 |
| 15°   | 1780.4 | 1767.0 | 1747.1 | 1723.4 | 1723.8 |
| 17.5° | 1745.5 | 1730.2 | 1703.4 | 1678.0 | 1680.2 |
| 20°   | 1704.4 | 1687.0 | 1655.4 | 1629.0 | 1630.8 |
| 22.5° | 1658.7 | 1638.6 | 1605.0 | 1578.4 | 1578.5 |
| 25°   | 1609.8 | 1587.0 | 1550.0 | 1524.9 | 1525.2 |
| 27.5° | 1556.8 | 1531.3 | 1492.6 | 1469.3 | 1470.8 |
| 30°   | 1499.8 | 1472.6 | 1433.0 | 1413.5 | 1416.2 |
| 32.5° | 1439.7 | 1411.5 | 1372.3 | 1357.8 | 1362.7 |
| 35°   | 1377.4 | 1347.2 | 1308.9 | 1299.8 | 1305.3 |
| 37.5° | 1312.4 | 1282.6 | 1246.2 | 1242.2 | 1247.8 |
| 40°   | 1244.1 | 1215.1 | 1182.8 | 1182.1 | 1188.6 |
| 42.5° | 1175.0 | 1146.7 | 1118.7 | 1121.7 | 1128.6 |
| 45°   | 1104.5 | 1076.2 | 1053.2 | 1058.9 | 1066.3 |
| 47.5° | 1034.1 | 1005.9 | 987.7  | 995.5  | 1002.2 |
| 50°   | 960.6  | 934.3  | 919.9  | 929.5  | 935.5  |
| 52.5° | 885.6  | 861.2  | 851.4  | 862.4  | 870.9  |
| 55°   | 812.3  | 788.8  | 781.8  | 793.3  | 799.5  |
| 57.5° | 736.6  | 716.6  | 711.9  | 723.1  | 729.7  |
| 60°   | 661.2  | 642.4  | 639.9  | 652.2  | 659.6  |
| 62.5° | 584.9  | 567.8  | 568.2  | 580.4  | 586.5  |
| 65°   | 509.1  | 494.5  | 495.7  | 506.6  | 512.7  |
| 67.5° | 433.8  | 420.7  | 425.1  | 437.4  | 440.6  |
| 70°   | 356.6  | 346.3  | 354.4  | 364.1  | 366.2  |
| 72.5° | 285.0  | 276.1  | 286.6  | 294.0  | 294.7  |
| 75°   | 215.8  | 210.1  | 222.8  | 227.1  | 228.6  |
| 77.5° | 152.7  | 151.9  | 161.8  | 166.2  | 168.2  |
| 80°   | 98.8   | 102.0  | 109.3  | 115.2  | 116.1  |
| 82.5° | 56.0   | 60.0   | 67.4   | 77.3   | 81.2   |
| 85°   | 26.0   | 30.2   | 39.0   | 47.4   | 51.2   |
| 87.5° | 8.8    | 11.9   | 16.5   | 18.0   | 17.1   |
| 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 | 16.56            | 18.14 | 16.92 | 18.45 | 18.77 | 16.60          | 18.18 | 16.96 | 18.49 | 18.81 |
|                 | 3H   | 18.03            | 19.45 | 18.41 | 19.78 | 20.14 | 18.14          | 19.56 | 18.52 | 19.89 | 20.25 |
|                 | 4H   | 18.46            | 19.80 | 18.86 | 20.15 | 20.53 | 18.61          | 19.95 | 19.01 | 20.30 | 20.67 |
|                 | 6H   | 18.68            | 19.92 | 19.09 | 20.28 | 20.67 | 18.88          | 20.12 | 19.29 | 20.48 | 20.87 |
|                 | 8H   | 18.71            | 19.89 | 19.13 | 20.28 | 20.68 | 18.95          | 20.13 | 19.37 | 20.52 | 20.92 |
|                 | 12H  | 18.71            | 19.84 | 19.14 | 20.22 | 20.65 | 18.99          | 20.12 | 19.42 | 20.51 | 20.94 |
| 4H              | 2H   | 17.09            | 18.43 | 17.49 | 18.78 | 19.15 | 17.13          | 18.46 | 17.52 | 18.81 | 19.19 |
|                 | 3H   | 18.75            | 19.86 | 19.16 | 20.26 | 20.66 | 18.86          | 19.97 | 19.27 | 20.37 | 20.77 |
|                 | 4H   | 19.27            | 20.27 | 19.70 | 20.68 | 21.12 | 19.43          | 20.43 | 19.86 | 20.85 | 21.29 |
|                 | 6H   | 19.56            | 20.43 | 20.02 | 20.88 | 21.33 | 19.79          | 20.66 | 20.25 | 21.11 | 21.56 |
|                 | 8H   | 19.61            | 20.43 | 20.07 | 20.87 | 21.33 | 19.89          | 20.71 | 20.35 | 21.15 | 21.61 |
|                 | 12H  | 19.63            | 20.36 | 20.11 | 20.83 | 21.30 | 19.97          | 20.70 | 20.45 | 21.17 | 21.64 |
| 8H              | 4H   | 19.47            | 20.28 | 19.93 | 20.72 | 21.19 | 19.62          | 20.43 | 20.08 | 20.87 | 21.34 |
|                 | 6H   | 19.82            | 20.50 | 20.32 | 20.99 | 21.46 | 20.05          | 20.72 | 20.54 | 21.21 | 21.69 |
|                 | 8H   | 19.90            | 20.50 | 20.41 | 21.01 | 21.50 | 20.19          | 20.79 | 20.70 | 21.30 | 21.79 |
|                 | 12H  | 19.94            | 20.48 | 20.45 | 20.97 | 21.53 | 20.32          | 20.85 | 20.82 | 21.34 | 21.90 |
| 12H             | 4H   | 19.47            | 20.20 | 19.95 | 20.68 | 21.15 | 19.62          | 20.35 | 20.10 | 20.82 | 21.29 |
|                 | 6H   | 19.83            | 20.44 | 20.34 | 20.95 | 21.43 | 20.05          | 20.65 | 20.56 | 21.16 | 21.65 |
|                 | 8H   | 19.95            | 20.48 | 20.46 | 20.97 | 21.53 | 20.23          | 20.77 | 20.74 | 21.26 | 21.82 |

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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