

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: P1498295

Luminaire Tested: MAE-G-2-120-1STD-STD-35-90-WDDCPH

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498295  
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-STD-35-90-WDDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient , STD exam illumination levels  
Light Source: -  
Ballast/Driver: -

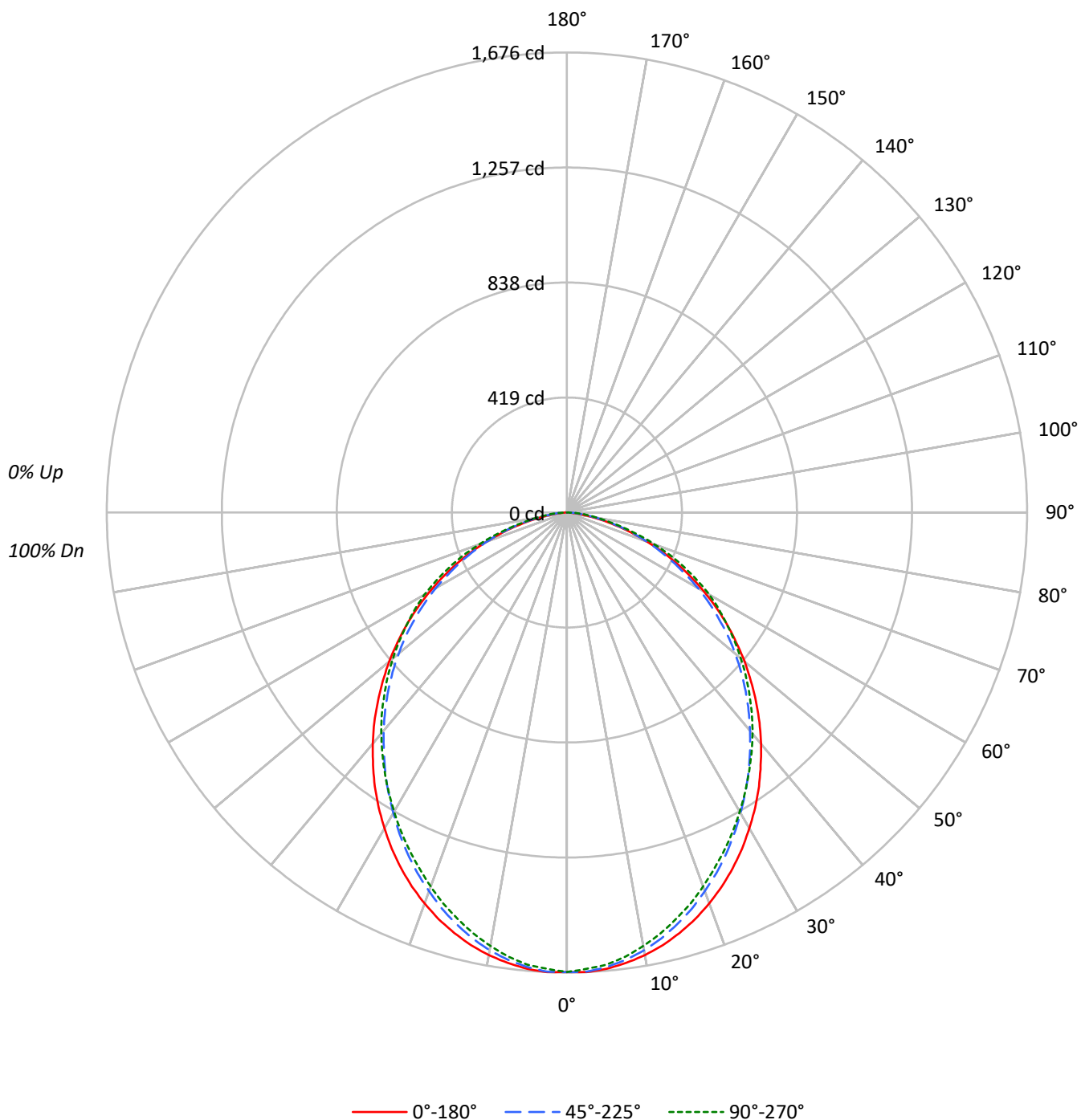
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4004.0 lumens  
Efficiency: N/A  
Efficacy: 76.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 52.2  
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 | 97  | 107 | 103 | 99  | 96  | 99  | 96  | 93  |  | 95  | 92  | 90  |  | 91  | 89  | 87  | 85  |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 78  |  | 84  | 79  | 76  |  | 81  | 77  | 74  | 72  |
| 3   | 92  | 81  | 74  | 67  | 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  | 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°  | 4505 | 4505 | 4505 |
| 5°  | 4507 | 4489 | 4467 |
| 10° | 4474 | 4425 | 4382 |
| 15° | 4418 | 4326 | 4272 |
| 20° | 4341 | 4204 | 4153 |
| 25° | 4244 | 4073 | 4030 |
| 30° | 4129 | 3928 | 3910 |
| 35° | 4006 | 3789 | 3799 |
| 40° | 3864 | 3645 | 3695 |
| 45° | 3706 | 3502 | 3580 |
| 50° | 3537 | 3350 | 3460 |
| 55° | 3341 | 3172 | 3335 |
| 60° | 3102 | 2969 | 3224 |
| 65° | 2823 | 2706 | 3001 |
| 70° | 2450 | 2434 | 2680 |
| 75° | 1956 | 2075 | 2208 |
| 80° | 1353 | 1609 | 1757 |
| 85° | 756  | 1232 | 1602 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3706 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 157.1  | 3.9       |
| 10°-20°   | 438.0  | 10.9      |
| 20°-30°   | 636.0  | 15.9      |
| 30°-40°   | 731.8  | 18.3      |
| 40°-50°   | 724.1  | 18.1      |
| 50°-60°   | 619.9  | 15.5      |
| 60°-70°   | 437.4  | 10.9      |
| 70°-80°   | 213.0  | 5.3       |
| 80°-90°   | 46.6   | 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°    | 1231.1 | 30.7      |
| 0°-40°    | 1962.9 | 49.0      |
| 0°-60°    | 3307.0 | 82.6      |
| 0°-90°    | 4004.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4004.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1674 | 1674  | 1674 | 1674  | 1674 |      |
| 5°  | 1668 | 1667  | 1662 | 1650  | 1654 | 158  |
| 15° | 1586 | 1577  | 1553 | 1532  | 1534 | 447  |
| 25° | 1430 | 1408  | 1372 | 1354  | 1357 | 658  |
| 35° | 1219 | 1190  | 1154 | 1149  | 1156 | 762  |
| 45° | 974  | 947   | 920  | 931   | 941  | 751  |
| 55° | 712  | 688   | 676  | 696   | 711  | 636  |
| 65° | 443  | 424   | 425  | 457   | 471  | 439  |
| 75° | 188  | 180   | 200  | 212   | 212  | 203  |
| 85° | 24   | 30    | 40   | 48    | 52   | 35   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1674.2 | 1674.2 | 1674.2 | 1674.2 | 1674.2 |
| 2.5°  | 1676.1 | 1677.5 | 1674.2 | 1661.6 | 1663.8 |
| 5°    | 1668.4 | 1667.0 | 1662.0 | 1650.1 | 1653.8 |
| 7.5°  | 1655.1 | 1652.8 | 1643.8 | 1629.6 | 1632.1 |
| 10°   | 1637.5 | 1632.8 | 1619.3 | 1601.7 | 1603.7 |
| 12.5° | 1614.6 | 1608.3 | 1589.3 | 1569.3 | 1571.4 |
| 15°   | 1585.9 | 1577.0 | 1552.7 | 1531.6 | 1533.6 |
| 17.5° | 1553.0 | 1542.7 | 1513.4 | 1490.4 | 1495.0 |
| 20°   | 1515.8 | 1501.8 | 1468.0 | 1446.2 | 1450.2 |
| 22.5° | 1474.7 | 1457.4 | 1421.8 | 1400.7 | 1403.7 |
| 25°   | 1429.5 | 1408.3 | 1371.9 | 1353.6 | 1357.3 |
| 27.5° | 1380.8 | 1357.5 | 1319.9 | 1303.3 | 1308.9 |
| 30°   | 1328.8 | 1303.8 | 1264.0 | 1252.2 | 1258.4 |
| 32.5° | 1275.5 | 1248.8 | 1209.4 | 1201.7 | 1207.8 |
| 35°   | 1219.4 | 1190.3 | 1153.5 | 1148.6 | 1156.4 |
| 37.5° | 1159.4 | 1131.4 | 1095.1 | 1097.1 | 1104.3 |
| 40°   | 1099.9 | 1071.0 | 1037.6 | 1043.0 | 1051.8 |
| 42.5° | 1038.1 | 1010.1 | 979.7  | 987.4  | 997.7  |
| 45°   | 973.8  | 947.0  | 920.2  | 930.8  | 940.6  |
| 47.5° | 909.1  | 882.6  | 860.7  | 873.2  | 884.9  |
| 50°   | 844.9  | 819.5  | 800.2  | 815.5  | 826.5  |
| 52.5° | 777.5  | 753.3  | 739.3  | 755.5  | 769.8  |
| 55°   | 712.2  | 687.6  | 676.2  | 695.7  | 710.8  |
| 57.5° | 644.7  | 624.4  | 614.5  | 637.7  | 656.6  |
| 60°   | 576.3  | 556.2  | 551.6  | 581.0  | 599.1  |
| 62.5° | 509.3  | 489.6  | 487.4  | 522.0  | 535.1  |
| 65°   | 443.4  | 424.0  | 424.9  | 457.2  | 471.3  |
| 67.5° | 378.0  | 360.3  | 367.8  | 398.9  | 408.4  |
| 70°   | 311.4  | 295.6  | 309.4  | 335.8  | 340.6  |
| 72.5° | 248.9  | 235.5  | 254.5  | 273.2  | 274.4  |
| 75°   | 188.1  | 179.9  | 199.6  | 212.1  | 212.4  |
| 77.5° | 134.6  | 130.3  | 148.7  | 157.3  | 158.0  |
| 80°   | 87.3   | 89.2   | 103.8  | 110.6  | 113.4  |
| 82.5° | 51.0   | 55.5   | 66.8   | 78.0   | 81.0   |
| 85°   | 24.5   | 30.0   | 39.9   | 48.4   | 51.9   |
| 87.5° | 8.4    | 12.1   | 16.6   | 18.4   | 17.9   |
| 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 | 16.03            | 17.61 | 16.39 | 17.93 | 18.24 | 16.18          | 17.77 | 16.55 | 18.08 | 18.39 |
|                 | 3H   | 17.48            | 18.90 | 17.86 | 19.23 | 19.59 | 17.83          | 19.26 | 18.21 | 19.58 | 19.94 |
|                 | 4H   | 17.91            | 19.25 | 18.31 | 19.60 | 19.97 | 18.34          | 19.68 | 18.74 | 20.03 | 20.40 |
|                 | 6H   | 18.13            | 19.37 | 18.54 | 19.73 | 20.12 | 18.64          | 19.88 | 19.05 | 20.24 | 20.63 |
|                 | 8H   | 18.16            | 19.34 | 18.59 | 19.73 | 20.13 | 18.73          | 19.91 | 19.15 | 20.30 | 20.70 |
|                 | 12H  | 18.17            | 19.30 | 18.60 | 19.68 | 20.11 | 18.79          | 19.92 | 19.22 | 20.30 | 20.73 |
| 4H              | 2H   | 16.54            | 17.88 | 16.94 | 18.23 | 18.61 | 16.67          | 18.01 | 17.07 | 18.35 | 18.73 |
|                 | 3H   | 18.18            | 19.29 | 18.59 | 19.69 | 20.09 | 18.52          | 19.64 | 18.93 | 20.04 | 20.44 |
|                 | 4H   | 18.69            | 19.70 | 19.13 | 20.11 | 20.55 | 19.14          | 20.15 | 19.57 | 20.56 | 21.00 |
|                 | 6H   | 19.00            | 19.87 | 19.45 | 20.31 | 20.77 | 19.55          | 20.42 | 20.00 | 20.86 | 21.32 |
|                 | 8H   | 19.05            | 19.87 | 19.51 | 20.31 | 20.78 | 19.67          | 20.49 | 20.13 | 20.93 | 21.40 |
|                 | 12H  | 19.07            | 19.81 | 19.55 | 20.28 | 20.75 | 19.77          | 20.50 | 20.25 | 20.98 | 21.45 |
| 8H              | 4H   | 18.92            | 19.74 | 19.38 | 20.18 | 20.65 | 19.32          | 20.14 | 19.79 | 20.59 | 21.05 |
|                 | 6H   | 19.29            | 19.96 | 19.78 | 20.45 | 20.93 | 19.81          | 20.49 | 20.31 | 20.98 | 21.45 |
|                 | 8H   | 19.38            | 19.98 | 19.89 | 20.49 | 20.98 | 19.99          | 20.60 | 20.50 | 21.10 | 21.59 |
|                 | 12H  | 19.43            | 19.96 | 19.94 | 20.45 | 21.02 | 20.15          | 20.68 | 20.66 | 21.18 | 21.74 |
| 12H             | 4H   | 18.93            | 19.66 | 19.41 | 20.14 | 20.61 | 19.32          | 20.06 | 19.81 | 20.53 | 21.00 |
|                 | 6H   | 19.31            | 19.92 | 19.82 | 20.42 | 20.91 | 19.82          | 20.42 | 20.33 | 20.93 | 21.42 |
|                 | 8H   | 19.44            | 19.97 | 19.95 | 20.46 | 21.03 | 20.04          | 20.57 | 20.55 | 21.07 | 21.63 |