

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: P1499210

Luminaire Tested: MAE-G-4-120-2HI-HI-35-WDDCPH

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1499210  
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-4-120-2HI-HI-35-WDDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient , HI exam illumination levels  
Light Source: -  
Ballast/Driver: -

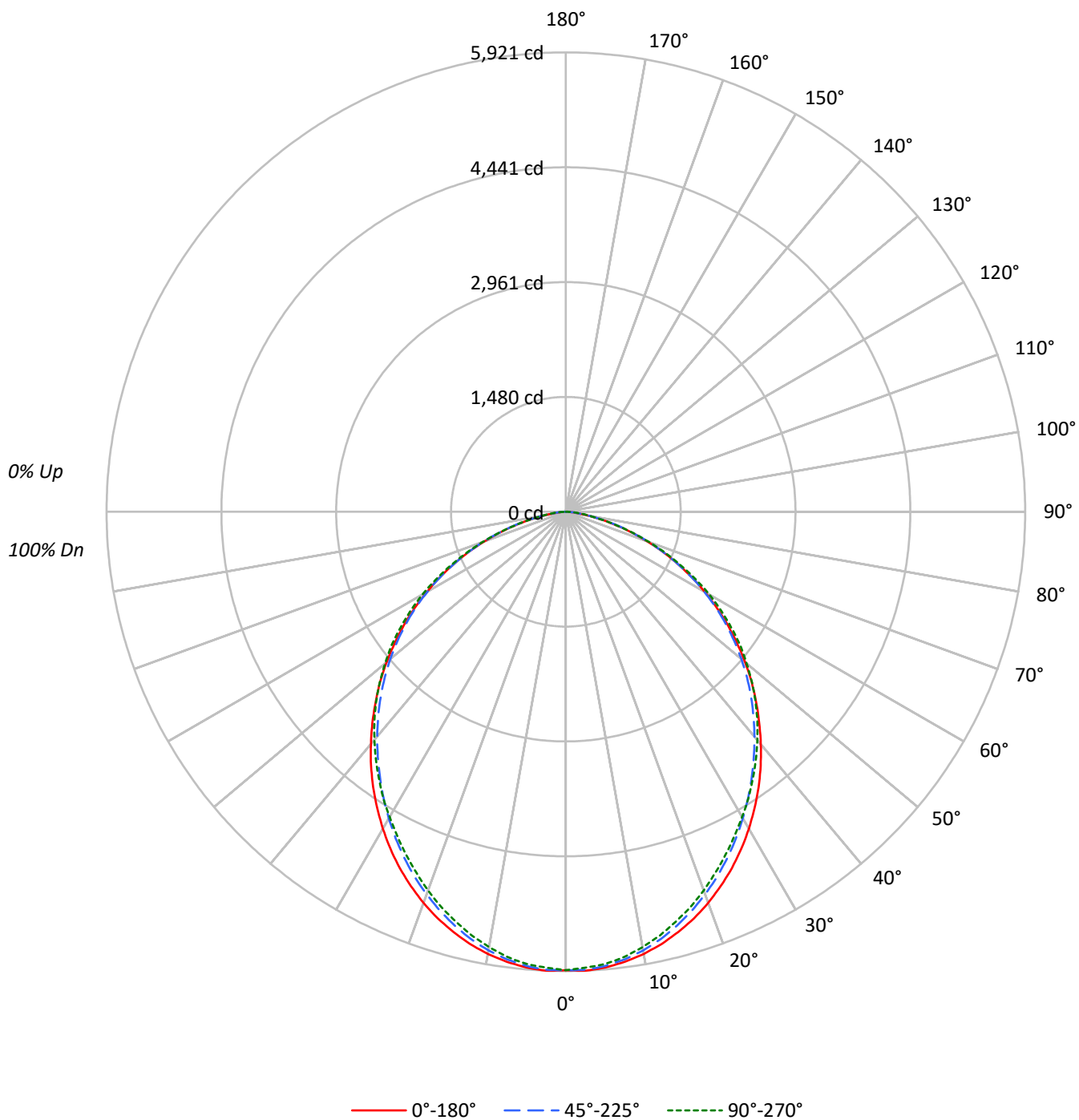
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14383.0 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 177.5  
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 | 98  | 107 | 103 | 99  | 96  | 99  | 96  | 93  |  | 95  | 92  | 90  |  | 91  |
| 2   | 100 | 92  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 82  | 78  |  | 84  | 80  | 76  |  | 81  |
| 3   | 92  | 82  | 74  | 68  | 89  | 80  | 73  | 67  | 77  | 71  | 66  |  | 74  | 69  | 65  |  | 72  |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 57  |  | 67  | 61  | 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  | 54  | 42  | 34  | 29  | 53  | 41  | 34  | 29  | 40  | 33  | 28  |  | 39  | 33  | 28  |  | 38  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7950 | 7950 | 7950 |
| 5°  | 7962 | 7936 | 7901 |
| 10° | 7906 | 7842 | 7783 |
| 15° | 7809 | 7695 | 7620 |
| 20° | 7682 | 7513 | 7438 |
| 25° | 7520 | 7311 | 7237 |
| 30° | 7329 | 7090 | 7057 |
| 35° | 7113 | 6861 | 6902 |
| 40° | 6866 | 6644 | 6744 |
| 45° | 6601 | 6423 | 6578 |
| 50° | 6311 | 6183 | 6369 |
| 55° | 5978 | 5898 | 6106 |
| 60° | 5577 | 5544 | 5756 |
| 65° | 5071 | 5073 | 5217 |
| 70° | 4378 | 4429 | 4492 |
| 75° | 3489 | 3589 | 3547 |
| 80° | 2362 | 2493 | 2500 |
| 85° | 1215 | 1666 | 2126 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6601 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 555.7   | 3.9       |
| 10°-20°   | 1556.3  | 10.8      |
| 20°-30°   | 2275.5  | 15.8      |
| 30°-40°   | 2639.1  | 18.3      |
| 40°-50°   | 2634.5  | 18.3      |
| 50°-60°   | 2269.4  | 15.8      |
| 60°-70°   | 1583.7  | 11.0      |
| 70°-80°   | 731.6   | 5.1       |
| 80°-90°   | 137.2   | 1.0       |
| 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°    | 4387.5  | 30.5      |
| 0°-40°    | 7026.6  | 48.9      |
| 0°-60°    | 11930.6 | 82.9      |
| 0°-90°    | 14383.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 14383.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 5909 | 5909  | 5909 | 5909  | 5909 |      |
| 5°  | 5895 | 5874  | 5876 | 5842  | 5850 | 559  |
| 15° | 5606 | 5567  | 5524 | 5467  | 5471 | 1580 |
| 25° | 5066 | 5008  | 4924 | 4868  | 4875 | 2332 |
| 35° | 4330 | 4256  | 4177 | 4174  | 4202 | 2707 |
| 45° | 3469 | 3404  | 3375 | 3422  | 3457 | 2676 |
| 55° | 2548 | 2498  | 2514 | 2576  | 2603 | 2276 |
| 65° | 1593 | 1569  | 1593 | 1622  | 1639 | 1576 |
| 75° | 671  | 664   | 690  | 685   | 682  | 722  |
| 85° | 79   | 88    | 108  | 129   | 138  | 117  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

TEST NUMBER: P1499210

CATALOG NUMBER: MAE-G-4-120-2HI-HI-35-WDDCPH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 5909.0 | 5909.0 | 5909.0 | 5909.0 | 5909.0 |
| 2.5°  | 5921.0 | 5901.7 | 5909.0 | 5883.1 | 5881.5 |
| 5°    | 5895.2 | 5873.8 | 5876.1 | 5842.1 | 5849.9 |
| 7.5°  | 5849.9 | 5825.1 | 5818.5 | 5780.1 | 5787.3 |
| 10°   | 5786.9 | 5756.6 | 5740.0 | 5692.9 | 5696.6 |
| 12.5° | 5706.4 | 5671.9 | 5643.0 | 5588.8 | 5595.0 |
| 15°   | 5606.1 | 5567.4 | 5524.2 | 5467.2 | 5470.7 |
| 17.5° | 5495.7 | 5453.5 | 5392.8 | 5332.3 | 5342.1 |
| 20°   | 5365.0 | 5318.8 | 5247.2 | 5184.3 | 5194.7 |
| 22.5° | 5220.3 | 5167.8 | 5093.2 | 5030.7 | 5036.4 |
| 25°   | 5065.6 | 5007.7 | 4924.3 | 4867.6 | 4874.7 |
| 27.5° | 4897.7 | 4833.1 | 4748.0 | 4697.4 | 4709.2 |
| 30°   | 4717.2 | 4649.4 | 4563.5 | 4525.9 | 4542.5 |
| 32.5° | 4527.1 | 4457.7 | 4374.1 | 4354.5 | 4379.3 |
| 35°   | 4330.5 | 4256.5 | 4176.8 | 4174.4 | 4202.0 |
| 37.5° | 4125.8 | 4053.0 | 3981.4 | 3995.9 | 4024.6 |
| 40°   | 3909.1 | 3840.8 | 3782.7 | 3808.7 | 3839.7 |
| 42.5° | 3691.2 | 3625.6 | 3581.4 | 3619.3 | 3652.8 |
| 45°   | 3468.9 | 3403.6 | 3375.4 | 3421.5 | 3457.2 |
| 47.5° | 3247.9 | 3182.1 | 3168.2 | 3221.2 | 3253.3 |
| 50°   | 3015.0 | 2956.4 | 2953.7 | 3011.3 | 3042.5 |
| 52.5° | 2780.1 | 2726.0 | 2736.0 | 2797.8 | 2836.2 |
| 55°   | 2548.2 | 2497.7 | 2514.3 | 2575.8 | 2602.9 |
| 57.5° | 2309.7 | 2269.7 | 2291.2 | 2346.0 | 2372.8 |
| 60°   | 2072.3 | 2035.5 | 2060.2 | 2112.6 | 2138.9 |
| 62.5° | 1832.3 | 1800.3 | 1828.7 | 1872.7 | 1889.7 |
| 65°   | 1592.7 | 1568.7 | 1593.3 | 1621.5 | 1638.7 |
| 67.5° | 1356.8 | 1334.2 | 1361.0 | 1388.2 | 1394.4 |
| 70°   | 1113.0 | 1098.8 | 1125.9 | 1142.0 | 1141.9 |
| 72.5° | 888.7  | 874.8  | 900.5  | 906.6  | 902.1  |
| 75°   | 671.1  | 663.8  | 690.4  | 684.7  | 682.3  |
| 77.5° | 473.5  | 476.9  | 490.9  | 486.7  | 485.5  |
| 80°   | 304.9  | 315.6  | 321.8  | 324.9  | 322.7  |
| 82.5° | 171.5  | 181.2  | 190.5  | 213.1  | 222.0  |
| 85°   | 78.7   | 88.3   | 107.9  | 129.0  | 137.7  |
| 87.5° | 26.5   | 34.1   | 45.3   | 48.8   | 46.1   |
| 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 | 18.13            | 19.71 | 18.49 | 20.03 | 20.34 | 18.35          | 19.94 | 18.72 | 20.25 | 20.57 |
|                 | 3H   | 19.59            | 21.02 | 19.97 | 21.35 | 21.71 | 19.82          | 21.24 | 20.20 | 21.57 | 21.93 |
|                 | 4H   | 20.02            | 21.36 | 20.42 | 21.71 | 22.08 | 20.24          | 21.57 | 20.63 | 21.92 | 22.30 |
|                 | 6H   | 20.23            | 21.46 | 20.64 | 21.83 | 22.22 | 20.44          | 21.68 | 20.85 | 22.05 | 22.44 |
|                 | 8H   | 20.25            | 21.43 | 20.68 | 21.82 | 22.22 | 20.49          | 21.67 | 20.91 | 22.06 | 22.46 |
|                 | 12H  | 20.25            | 21.38 | 20.68 | 21.76 | 22.19 | 20.52          | 21.64 | 20.95 | 22.03 | 22.46 |
| 4H              | 2H   | 18.69            | 20.03 | 19.09 | 20.37 | 20.75 | 18.87          | 20.21 | 19.27 | 20.56 | 20.93 |
|                 | 3H   | 20.33            | 21.44 | 20.74 | 21.84 | 22.24 | 20.52          | 21.64 | 20.93 | 22.03 | 22.43 |
|                 | 4H   | 20.84            | 21.84 | 21.27 | 22.26 | 22.69 | 21.03          | 22.03 | 21.46 | 22.45 | 22.88 |
|                 | 6H   | 21.13            | 22.00 | 21.58 | 22.44 | 22.90 | 21.32          | 22.19 | 21.77 | 22.63 | 23.09 |
|                 | 8H   | 21.17            | 21.98 | 21.63 | 22.43 | 22.89 | 21.39          | 22.20 | 21.85 | 22.64 | 23.11 |
|                 | 12H  | 21.18            | 21.91 | 21.66 | 22.39 | 22.86 | 21.44          | 22.16 | 21.92 | 22.64 | 23.11 |
| 8H              | 4H   | 21.03            | 21.84 | 21.49 | 22.29 | 22.75 | 21.20          | 22.01 | 21.66 | 22.46 | 22.92 |
|                 | 6H   | 21.37            | 22.04 | 21.87 | 22.53 | 23.01 | 21.55          | 22.22 | 22.04 | 22.71 | 23.18 |
|                 | 8H   | 21.44            | 22.04 | 21.95 | 22.55 | 23.04 | 21.65          | 22.25 | 22.16 | 22.76 | 23.25 |
|                 | 12H  | 21.48            | 22.01 | 21.98 | 22.50 | 23.06 | 21.74          | 22.27 | 22.25 | 22.76 | 23.33 |
| 12H             | 4H   | 21.03            | 21.76 | 21.51 | 22.23 | 22.70 | 21.20          | 21.93 | 21.68 | 22.40 | 22.87 |
|                 | 6H   | 21.37            | 21.97 | 21.88 | 22.48 | 22.97 | 21.54          | 22.15 | 22.06 | 22.65 | 23.14 |
|                 | 8H   | 21.47            | 22.01 | 21.98 | 22.50 | 23.06 | 21.68          | 22.21 | 22.19 | 22.70 | 23.27 |

END OF REPORT