

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: P1498631

Luminaire Tested: MAE-G-2-120-3HI-HI-35-90-WDDCPH

Issue Date: 6/26/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1498631  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: MAE-G-2-120-3HI-HI-35-90-WDDCPH  
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 HI ambient , HI exam illumination levels  
Light Source: -  
Ballast/Driver: -

**Summary**

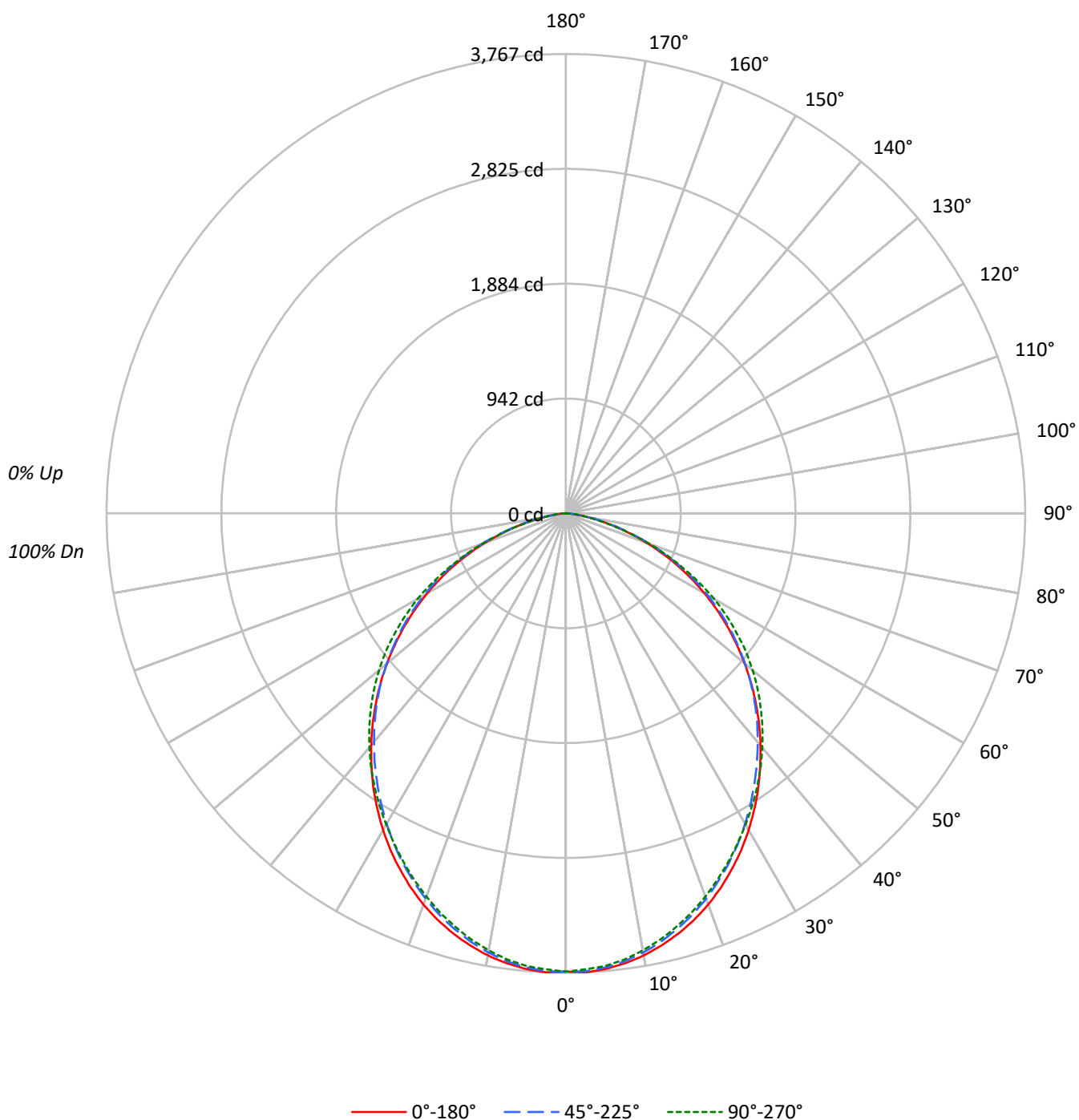
Lumens per Lamp: N/A  
Luminaire Lumens: 9245.0 lumens  
Efficiency: N/A  
Efficacy: 81.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 113  
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  | 44  | 39  | 51  | 44  | 38  |  | 50  | 43  | 38  |  | 48  |
| 8   | 62  | 49  | 40  | 35  | 60  | 48  | 40  | 35  | 47  | 40  | 34  |  | 46  | 39  | 34  |  | 44  |
| 9   | 58  | 45  | 37  | 31  | 57  | 44  | 37  | 31  | 43  | 36  | 31  |  | 42  | 36  | 31  |  | 41  |
| 10  | 54  | 41  | 34  | 29  | 53  | 41  | 33  | 28  | 40  | 33  | 28  |  | 39  | 33  | 28  |  | 38  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10112 | 10112 | 10112 |
| 5°  | 10130 | 10098 | 10064 |
| 10° | 10060 | 9992  | 9942  |
| 15° | 9938  | 9829  | 9775  |
| 20° | 9775  | 9629  | 9576  |
| 25° | 9561  | 9396  | 9359  |
| 30° | 9316  | 9132  | 9157  |
| 35° | 9039  | 8862  | 8986  |
| 40° | 8725  | 8600  | 8805  |
| 45° | 8384  | 8332  | 8605  |
| 50° | 8012  | 8029  | 8369  |
| 55° | 7591  | 7678  | 8025  |
| 60° | 7071  | 7229  | 7566  |
| 65° | 6423  | 6622  | 6769  |
| 70° | 5533  | 5755  | 5712  |
| 75° | 4397  | 4572  | 4274  |
| 80° | 2960  | 3000  | 2789  |
| 85° | 1519  | 1880  | 2291  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8605 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 353.8  | 3.8       |
| 10°-20°   | 994.0  | 10.8      |
| 20°-30°   | 1459.7 | 15.8      |
| 30°-40°   | 1699.2 | 18.4      |
| 40°-50°   | 1702.9 | 18.4      |
| 50°-60°   | 1471.5 | 15.9      |
| 60°-70°   | 1024.1 | 11.1      |
| 70°-80°   | 460.1  | 5.0       |
| 80°-90°   | 79.8   | 0.9       |
| 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°    | 2807.4 | 30.4      |
| 0°-40°    | 4506.7 | 48.7      |
| 0°-60°    | 7681.1 | 83.1      |
| 0°-90°    | 9245.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 9245.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3758 | 3758  | 3758 | 3758  | 3758 |      |
| 5°  | 3750 | 3734  | 3738 | 3721  | 3726 | 356  |
| 15° | 3567 | 3544  | 3528 | 3504  | 3509 | 1005 |
| 25° | 3220 | 3191  | 3164 | 3140  | 3152 | 1483 |
| 35° | 2751 | 2716  | 2698 | 2709  | 2735 | 1719 |
| 45° | 2203 | 2178  | 2190 | 2233  | 2261 | 1700 |
| 55° | 1618 | 1600  | 1637 | 1691  | 1710 | 1444 |
| 65° | 1009 | 1006  | 1040 | 1059  | 1063 | 997  |
| 75° | 423  | 426   | 440  | 423   | 411  | 454  |
| 85° | 49   | 53    | 61   | 70    | 74   | 73   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3757.7 | 3757.7 | 3757.7 | 3757.7 | 3757.7 |
| 2.5°  | 3767.0 | 3751.6 | 3757.7 | 3744.1 | 3741.5 |
| 5°    | 3750.2 | 3734.2 | 3738.1 | 3720.6 | 3725.6 |
| 7.5°  | 3721.1 | 3704.0 | 3703.6 | 3684.5 | 3689.1 |
| 10°   | 3681.5 | 3661.5 | 3656.8 | 3635.1 | 3638.6 |
| 12.5° | 3629.0 | 3608.3 | 3598.5 | 3573.6 | 3579.6 |
| 15°   | 3567.2 | 3544.4 | 3528.0 | 3503.5 | 3508.9 |
| 17.5° | 3495.6 | 3470.4 | 3450.6 | 3422.1 | 3431.0 |
| 20°   | 3413.5 | 3386.3 | 3362.6 | 3332.4 | 3344.0 |
| 22.5° | 3321.5 | 3292.8 | 3265.8 | 3238.6 | 3250.3 |
| 25°   | 3220.1 | 3191.2 | 3164.5 | 3139.7 | 3151.9 |
| 27.5° | 3113.5 | 3081.2 | 3054.4 | 3036.5 | 3050.0 |
| 30°   | 2998.2 | 2964.8 | 2938.8 | 2927.5 | 2946.9 |
| 32.5° | 2876.4 | 2843.4 | 2820.3 | 2820.2 | 2842.6 |
| 35°   | 2751.4 | 2716.5 | 2697.8 | 2709.2 | 2735.4 |
| 37.5° | 2616.9 | 2587.5 | 2574.5 | 2597.4 | 2623.9 |
| 40°   | 2483.7 | 2453.0 | 2448.3 | 2478.7 | 2506.6 |
| 42.5° | 2345.7 | 2318.7 | 2320.4 | 2359.6 | 2385.5 |
| 45°   | 2203.0 | 2177.8 | 2189.5 | 2232.7 | 2261.0 |
| 47.5° | 2062.7 | 2037.0 | 2056.1 | 2103.4 | 2134.1 |
| 50°   | 1913.7 | 1892.6 | 1917.9 | 1971.1 | 1999.1 |
| 52.5° | 1765.5 | 1745.3 | 1778.3 | 1834.3 | 1861.4 |
| 55°   | 1618.1 | 1599.8 | 1636.6 | 1691.2 | 1710.5 |
| 57.5° | 1465.5 | 1455.0 | 1493.1 | 1541.0 | 1561.3 |
| 60°   | 1313.8 | 1304.6 | 1343.2 | 1387.7 | 1405.9 |
| 62.5° | 1161.8 | 1156.3 | 1193.2 | 1229.1 | 1235.3 |
| 65°   | 1008.8 | 1005.5 | 1040.0 | 1059.4 | 1063.1 |
| 67.5° | 854.1  | 855.2  | 886.7  | 896.7  | 896.3  |
| 70°   | 703.2  | 702.5  | 731.4  | 734.1  | 726.0  |
| 72.5° | 556.6  | 560.3  | 579.0  | 574.6  | 561.6  |
| 75°   | 422.9  | 426.2  | 439.7  | 423.4  | 411.1  |
| 77.5° | 298.4  | 301.4  | 307.4  | 289.5  | 281.8  |
| 80°   | 191.0  | 196.8  | 193.6  | 185.2  | 180.0  |
| 82.5° | 106.7  | 112.8  | 109.8  | 118.3  | 122.1  |
| 85°   | 49.2   | 52.9   | 60.9   | 70.4   | 74.2   |
| 87.5° | 16.8   | 20.0   | 25.0   | 26.7   | 24.9   |
| 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 | 18.97            | 20.55 | 19.33 | 20.87 | 21.18 | 19.38          | 20.96 | 19.74 | 21.28 | 21.59 |
|                 | 3H   | 20.42            | 21.84 | 20.79 | 22.17 | 22.53 | 20.79          | 22.21 | 21.17 | 22.54 | 22.90 |
|                 | 4H   | 20.84            | 22.17 | 21.23 | 22.52 | 22.90 | 21.16          | 22.49 | 21.55 | 22.84 | 23.22 |
|                 | 6H   | 21.04            | 22.27 | 21.45 | 22.64 | 23.03 | 21.31          | 22.55 | 21.72 | 22.91 | 23.30 |
|                 | 8H   | 21.06            | 22.24 | 21.49 | 22.63 | 23.03 | 21.34          | 22.51 | 21.76 | 22.90 | 23.30 |
|                 | 12H  | 21.06            | 22.19 | 21.49 | 22.57 | 23.00 | 21.35          | 22.48 | 21.78 | 22.86 | 23.29 |
| 4H              | 2H   | 19.56            | 20.89 | 19.96 | 21.24 | 21.62 | 19.89          | 21.22 | 20.29 | 21.57 | 21.95 |
|                 | 3H   | 21.18            | 22.29 | 21.59 | 22.69 | 23.09 | 21.48          | 22.59 | 21.89 | 22.99 | 23.39 |
|                 | 4H   | 21.68            | 22.68 | 22.11 | 23.10 | 23.53 | 21.93          | 22.93 | 22.37 | 23.35 | 23.79 |
|                 | 6H   | 21.96            | 22.83 | 22.41 | 23.27 | 23.73 | 22.16          | 23.03 | 22.61 | 23.47 | 23.93 |
|                 | 8H   | 22.00            | 22.81 | 22.46 | 23.25 | 23.72 | 22.20          | 23.01 | 22.66 | 23.45 | 23.92 |
|                 | 12H  | 22.01            | 22.73 | 22.49 | 23.21 | 23.68 | 22.23          | 22.96 | 22.71 | 23.43 | 23.90 |
| 8H              | 4H   | 21.86            | 22.68 | 22.33 | 23.12 | 23.59 | 22.09          | 22.91 | 22.56 | 23.35 | 23.82 |
|                 | 6H   | 22.19            | 22.86 | 22.69 | 23.35 | 23.83 | 22.36          | 23.03 | 22.86 | 23.52 | 24.00 |
|                 | 8H   | 22.26            | 22.85 | 22.77 | 23.36 | 23.85 | 22.43          | 23.03 | 22.94 | 23.54 | 24.03 |
|                 | 12H  | 22.29            | 22.82 | 22.80 | 23.31 | 23.87 | 22.49          | 23.02 | 23.00 | 23.51 | 24.08 |
| 12H             | 4H   | 21.86            | 22.59 | 22.34 | 23.06 | 23.53 | 22.09          | 22.82 | 22.57 | 23.29 | 23.76 |
|                 | 6H   | 22.18            | 22.78 | 22.70 | 23.29 | 23.78 | 22.36          | 22.96 | 22.87 | 23.47 | 23.95 |
|                 | 8H   | 22.28            | 22.81 | 22.79 | 23.30 | 23.86 | 22.46          | 22.99 | 22.97 | 23.48 | 24.04 |

END OF REPORT