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: P1498826

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

Issue Date: 6/26/2026

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Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | P1498826 |
| | 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-2-120-3STD-HI-35-WDDCPH |
| Description: | Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient , HI exam illumination levels |
| Light Source: | - |
| Ballast/Driver: | - |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 8044.0 lumens |
| Efficiency: | N/A |
| Efficacy: | 82.5 lumens/watt |
| Spacing Criteria (0/90/45): | 1.19 / 1.16 / 1.28 |
| Luminous Opening: | Rectangular (W 2' x L: 2' x H: 0') |
| CIE Type: | Direct |

| | |
|---|---|
| Input Watts (W): | 97.5 |
| 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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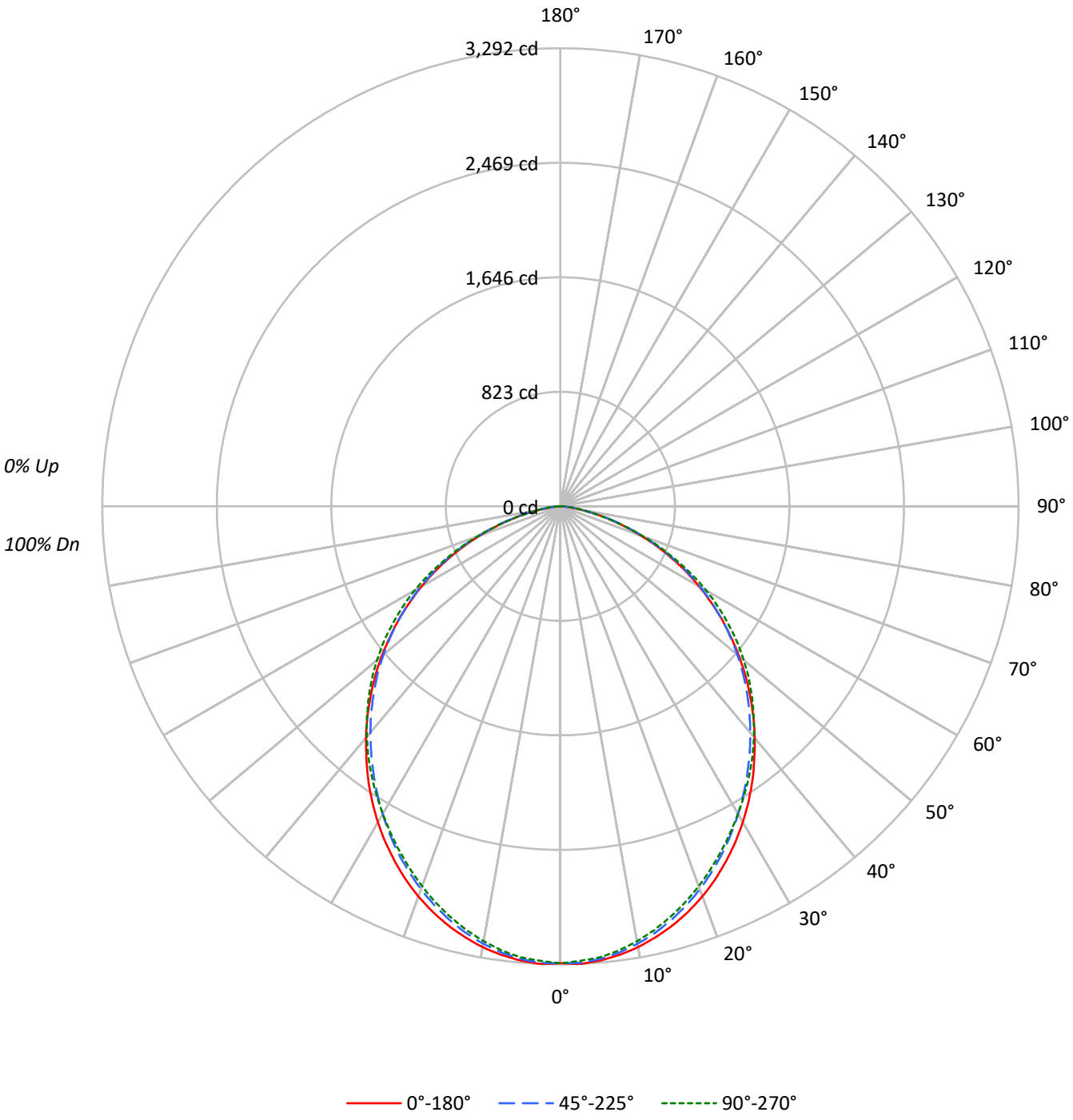
## Luminous Intensity Polar Plot



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## COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| RF | 20 | | | | 20 | | | | 20 | | | 20 | | | 20 | | | 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 | 88 | 85 |
| 2 | 100 | 92 | 86 | 81 | 98 | 91 | 85 | 80 | 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 | 64 | 61 |
| 4 | 84 | 73 | 64 | 58 | 82 | 71 | 63 | 57 | 69 | 62 | 57 | 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 | 42 | 40 |
| 7 | 67 | 53 | 45 | 39 | 65 | 53 | 44 | 39 | 51 | 44 | 38 | 50 | 43 | 38 | 48 | 42 | 38 | 36 |
| 8 | 62 | 49 | 41 | 35 | 60 | 48 | 40 | 35 | 47 | 40 | 34 | 46 | 39 | 34 | 44 | 38 | 34 | 32 |
| 9 | 58 | 45 | 37 | 31 | 57 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 41 | 35 | 31 | 29 |
| 10 | 54 | 41 | 34 | 29 | 53 | 41 | 34 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 |

## AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|---|---|---|---|
| 0° | 8837 | 8837 | 8837 |
| 5° | 8852 | 8822 | 8789 |
| 10° | 8791 | 8724 | 8672 |
| 15° | 8686 | 8572 | 8510 |
| 20° | 8545 | 8388 | 8322 |
| 25° | 8359 | 8175 | 8118 |
| 30° | 8147 | 7936 | 7929 |
| 35° | 7906 | 7694 | 7768 |
| 40° | 7633 | 7458 | 7599 |
| 45° | 7337 | 7218 | 7414 |
| 50° | 7013 | 6949 | 7200 |
| 55° | 6647 | 6640 | 6901 |
| 60° | 6194 | 6248 | 6518 |
| 65° | 5632 | 5727 | 5871 |
| 70° | 4857 | 5003 | 5013 |
| 75° | 3866 | 4024 | 3844 |
| 80° | 2614 | 2718 | 2624 |
| 85° | 1352 | 1769 | 2201 |

## MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 45°
Luminance: 7414 cd/sqm

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**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 309.0 | 3.8 |
| 10°-20° | 866.9 | 10.8 |
| 20°-30° | 1270.7 | 15.8 |
| 30°-40° | 1476.5 | 18.4 |
| 40°-50° | 1477.1 | 18.4 |
| 50°-60° | 1274.7 | 15.8 |
| 60°-70° | 889.5 | 11.1 |
| 70°-80° | 406.0 | 5.0 |
| 80°-90° | 73.6 | 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° | 2446.6 | 30.4 |
| 0°-40° | 3923.1 | 48.8 |
| 0°-60° | 6675.0 | 83.0 |
| 0°-90° | 8044.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8044.0 | 100.0 |

**CANDELA DISTRIBUTION:**

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|---|---|---|---|---|---|---|
| 0° | 3284 | 3284 | 3284 | 3284 | 3284 | |
| 5° | 3277 | 3264 | 3266 | 3249 | 3254 | 311 |
| 15° | 3118 | 3097 | 3077 | 3051 | 3055 | 879 |
| 25° | 2815 | 2786 | 2753 | 2726 | 2734 | 1296 |
| 35° | 2407 | 2370 | 2342 | 2345 | 2365 | 1504 |
| 45° | 1928 | 1899 | 1897 | 1927 | 1948 | 1487 |
| 55° | 1417 | 1394 | 1415 | 1456 | 1471 | 1265 |
| 65° | 884 | 876 | 900 | 918 | 922 | 874 |
| 75° | 372 | 372 | 387 | 378 | 370 | 399 |
| 85° | 44 | 48 | 57 | 67 | 71 | 65 |
| 90° | 0 | 0 | 0 | 0 | 0 | |

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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 22.5° | 45° | 67.5° | 90° |
|---|---|---|---|---|---|
| 0° | 3283.8 | 3283.8 | 3283.8 | 3283.8 | 3283.8 |
| 2.5° | 3291.7 | 3279.4 | 3283.8 | 3270.6 | 3269.2 |
| 5° | 3277.1 | 3264.0 | 3266.0 | 3249.1 | 3253.8 |
| 7.5° | 3251.7 | 3237.3 | 3234.9 | 3215.9 | 3220.0 |
| 10° | 3217.3 | 3199.9 | 3192.8 | 3170.6 | 3173.5 |
| 12.5° | 3171.6 | 3153.0 | 3140.3 | 3114.5 | 3119.2 |
| 15° | 3117.7 | 3096.8 | 3077.0 | 3050.6 | 3054.6 |
| 17.5° | 3055.3 | 3031.7 | 3007.6 | 2977.3 | 2984.2 |
| 20° | 2983.8 | 2957.8 | 2929.0 | 2897.2 | 2905.9 |
| 22.5° | 2903.6 | 2875.6 | 2843.2 | 2813.6 | 2821.9 |
| 25° | 2815.3 | 2786.2 | 2753.2 | 2725.5 | 2734.2 |
| 27.5° | 2722.4 | 2689.9 | 2655.8 | 2633.8 | 2643.6 |
| 30° | 2621.9 | 2587.8 | 2553.9 | 2537.5 | 2551.9 |
| 32.5° | 2515.7 | 2481.4 | 2449.7 | 2442.6 | 2459.6 |
| 35° | 2406.6 | 2370.2 | 2342.0 | 2344.7 | 2364.6 |
| 37.5° | 2289.3 | 2257.4 | 2233.8 | 2246.2 | 2266.3 |
| 40° | 2172.9 | 2139.8 | 2123.2 | 2142.0 | 2163.3 |
| 42.5° | 2052.4 | 2022.2 | 2011.2 | 2037.6 | 2057.2 |
| 45° | 1927.9 | 1899.0 | 1896.7 | 1926.8 | 1948.2 |
| 47.5° | 1805.1 | 1776.0 | 1780.5 | 1814.1 | 1837.6 |
| 50° | 1675.2 | 1649.9 | 1660.0 | 1698.8 | 1719.8 |
| 52.5° | 1545.3 | 1521.3 | 1538.6 | 1579.9 | 1600.6 |
| 55° | 1416.8 | 1394.2 | 1415.4 | 1456.0 | 1470.9 |
| 57.5° | 1283.5 | 1267.7 | 1290.8 | 1327.1 | 1343.1 |
| 60° | 1150.9 | 1136.6 | 1161.0 | 1195.9 | 1211.0 |
| 62.5° | 1018.0 | 1007.0 | 1031.5 | 1061.1 | 1067.3 |
| 65° | 884.5 | 875.5 | 899.5 | 917.8 | 922.0 |
| 67.5° | 749.2 | 744.7 | 768.3 | 780.2 | 781.1 |
| 70° | 617.3 | 611.8 | 635.9 | 642.3 | 637.2 |
| 72.5° | 489.1 | 488.2 | 506.1 | 507.0 | 497.8 |
| 75° | 371.8 | 371.8 | 387.0 | 378.2 | 369.7 |
| 77.5° | 262.8 | 263.8 | 273.5 | 263.2 | 258.7 |
| 80° | 168.7 | 173.6 | 175.4 | 172.3 | 169.3 |
| 82.5° | 94.6 | 100.7 | 101.9 | 111.8 | 116.1 |
| 85° | 43.8 | 48.1 | 57.3 | 67.2 | 71.3 |
| 87.5° | 14.9 | 18.4 | 23.7 | 25.4 | 23.9 |
| 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 | 18.50 | 20.09 | 18.87 | 20.40 | 20.71 | 18.82 | 20.41 | 19.19 | 20.72 | 21.04 |
| | 3H | 19.96 | 21.38 | 20.33 | 21.71 | 22.07 | 20.27 | 21.69 | 20.64 | 22.02 | 22.38 |
| | 4H | 20.38 | 21.72 | 20.78 | 22.06 | 22.44 | 20.66 | 22.00 | 21.06 | 22.34 | 22.72 |
| | 6H | 20.58 | 21.82 | 20.99 | 22.18 | 22.58 | 20.84 | 22.08 | 21.25 | 22.44 | 22.83 |
| | 8H | 20.61 | 21.79 | 21.03 | 22.18 | 22.58 | 20.88 | 22.05 | 21.30 | 22.44 | 22.84 |
| | 12H | 20.61 | 21.74 | 21.04 | 22.12 | 22.55 | 20.90 | 22.02 | 21.33 | 22.41 | 22.83 |
| 4H | 2H | 19.08 | 20.42 | 19.48 | 20.76 | 21.14 | 19.34 | 20.67 | 19.74 | 21.02 | 21.40 |
| | 3H | 20.71 | 21.82 | 21.12 | 22.22 | 22.62 | 20.97 | 22.08 | 21.38 | 22.48 | 22.88 |
| | 4H | 21.21 | 22.22 | 21.65 | 22.63 | 23.07 | 21.45 | 22.45 | 21.88 | 22.87 | 23.30 |
| | 6H | 21.49 | 22.36 | 21.95 | 22.81 | 23.26 | 21.70 | 22.58 | 22.16 | 23.02 | 23.47 |
| | 8H | 21.54 | 22.35 | 22.00 | 22.79 | 23.26 | 21.76 | 22.57 | 22.22 | 23.02 | 23.48 |
| | 12H | 21.55 | 22.28 | 22.03 | 22.75 | 23.22 | 21.80 | 22.53 | 22.28 | 23.01 | 23.48 |
| 8H | 4H | 21.40 | 22.22 | 21.86 | 22.66 | 23.13 | 21.62 | 22.43 | 22.08 | 22.87 | 23.34 |
| | 6H | 21.74 | 22.41 | 22.23 | 22.90 | 23.37 | 21.92 | 22.60 | 22.42 | 23.09 | 23.56 |
| | 8H | 21.80 | 22.41 | 22.32 | 22.91 | 23.40 | 22.01 | 22.61 | 22.52 | 23.12 | 23.61 |
| | 12H | 21.84 | 22.37 | 22.35 | 22.86 | 23.42 | 22.09 | 22.62 | 22.60 | 23.11 | 23.67 |
| 12H | 4H | 21.40 | 22.13 | 21.88 | 22.60 | 23.08 | 21.61 | 22.34 | 22.09 | 22.82 | 23.29 |
| | 6H | 21.73 | 22.34 | 22.25 | 22.84 | 23.33 | 21.92 | 22.52 | 22.43 | 23.03 | 23.52 |
| | 8H | 21.84 | 22.37 | 22.34 | 22.86 | 23.42 | 22.04 | 22.57 | 22.55 | 23.06 | 23.63 |

END OF REPORT