

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: P1498452

Luminaire Tested: MAE-G-2-120-2LO-HI-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498452
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-HI-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

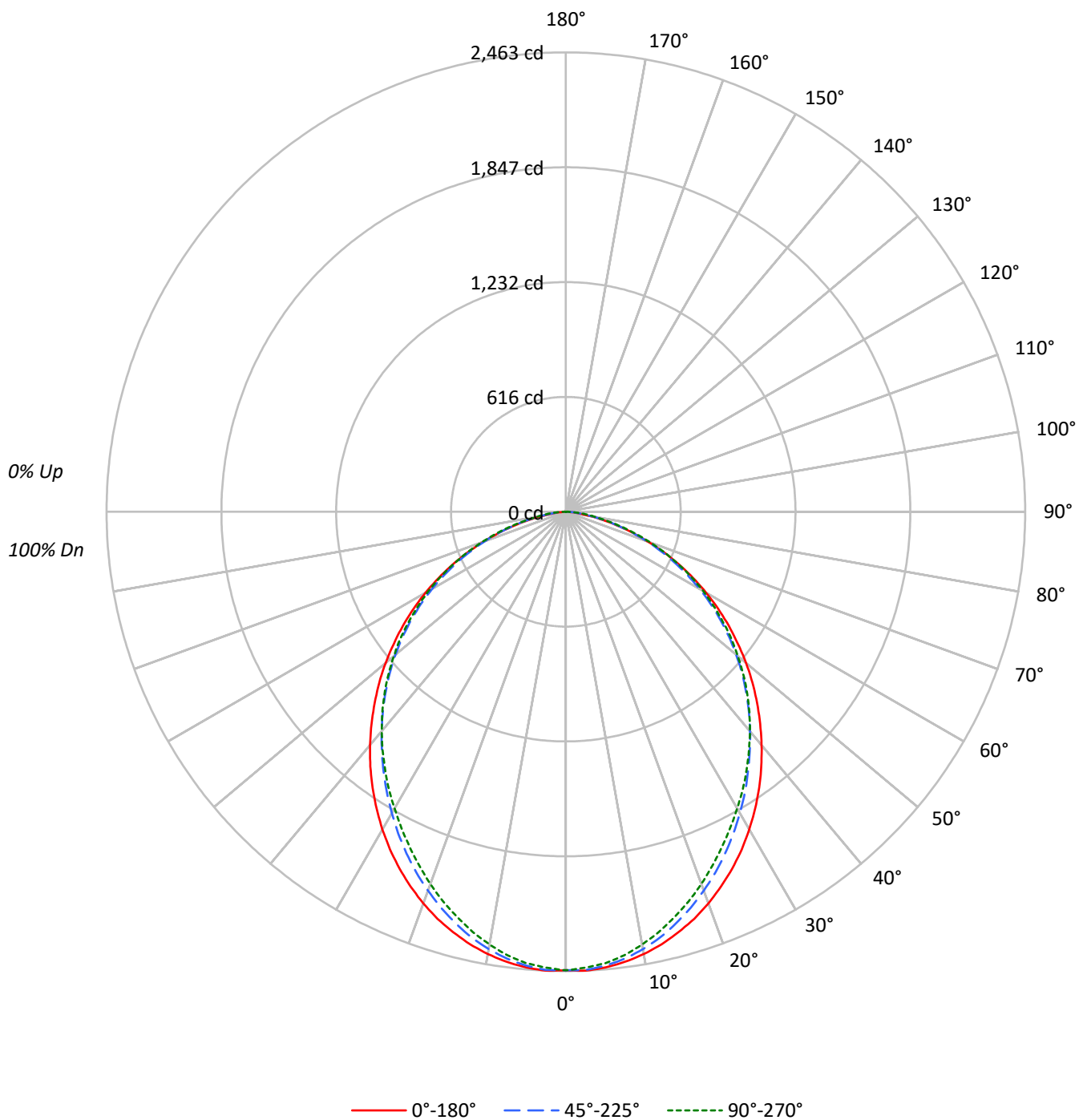
Lumens per Lamp: N/A
Luminaire Lumens: 5906.0 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 67
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

TEST NUMBER: P1498452

CATALOG NUMBER: MAE-G-2-120-2LO-HI-50-90

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	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	60	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	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6616	6616	6616
5°	6625	6599	6562
10°	6580	6508	6438
15°	6501	6365	6267
20°	6399	6190	6082
25°	6267	6002	5886
30°	6112	5799	5707
35°	5937	5594	5550
40°	5735	5399	5393
45°	5518	5202	5231
50°	5281	4992	5038
55°	5005	4750	4822
60°	4676	4458	4575
65°	4264	4090	4243
70°	3696	3638	3796
75°	2960	3064	3205
80°	2030	2304	2514
85°	1078	1686	2242

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5518 cd/sqm

TEST NUMBER: P1498452

CATALOG NUMBER: MAE-G-2-120-2LO-HI-50-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.9	3.9
10°-20°	643.6	10.9
20°-30°	935.6	15.8
30°-40°	1078.9	18.3
40°-50°	1071.0	18.1
50°-60°	918.8	15.6
60°-70°	647.1	11.0
70°-80°	314.1	5.3
80°-90°	66.1	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°	1810.1	30.6
0°-40°	2889.0	48.9
0°-60°	4878.7	82.6
0°-90°	5906.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5906.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2458	2458	2458	2458	2458	
5°	2452	2446	2443	2425	2429	233
15°	2334	2315	2285	2250	2250	658
25°	2111	2078	2021	1983	1982	972
35°	1807	1762	1703	1685	1689	1129
45°	1450	1407	1367	1368	1374	1118
55°	1067	1031	1012	1022	1028	953
65°	670	646	642	658	666	662
75°	285	275	295	305	308	306
85°	35	41	55	67	73	51
90°	0	0	0	0	0	

TEST NUMBER: P1498452

CATALOG NUMBER: MAE-G-2-120-2LO-HI-50-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2458.5	2458.5	2458.5	2458.5	2458.5
2.5°	2462.8	2457.6	2458.5	2444.6	2446.0
5°	2452.5	2445.5	2443.1	2425.2	2429.4
7.5°	2433.8	2424.5	2417.0	2395.7	2398.8
10°	2408.1	2395.6	2381.7	2354.9	2356.1
12.5°	2374.9	2359.5	2337.7	2305.9	2307.4
15°	2333.7	2315.4	2284.6	2249.6	2249.5
17.5°	2288.1	2266.6	2226.0	2188.1	2190.4
20°	2234.5	2209.6	2161.7	2122.5	2123.9
22.5°	2174.8	2145.9	2094.7	2054.8	2053.6
25°	2110.7	2077.9	2021.4	1983.4	1982.3
27.5°	2041.6	2004.7	1945.2	1909.4	1909.9
30°	1967.0	1927.4	1866.3	1835.2	1836.8
32.5°	1888.6	1847.0	1786.3	1761.4	1765.7
35°	1807.2	1762.5	1702.9	1684.6	1689.4
37.5°	1721.9	1677.7	1620.3	1608.4	1613.4
40°	1632.7	1589.3	1536.8	1529.3	1535.3
42.5°	1542.2	1499.6	1452.6	1449.8	1456.3
45°	1450.0	1407.1	1366.8	1367.6	1374.5
47.5°	1357.4	1315.1	1281.1	1284.7	1290.9
50°	1261.4	1221.3	1192.4	1198.5	1203.5
52.5°	1162.8	1125.4	1103.1	1111.2	1119.7
55°	1066.9	1030.6	1012.5	1021.8	1027.9
57.5°	967.7	936.2	921.7	931.7	938.8
60°	868.9	839.1	828.3	841.3	850.1
62.5°	769.0	741.4	735.6	750.3	758.8
65°	669.7	645.5	642.3	657.9	666.4
67.5°	570.7	549.2	552.0	570.7	576.0
70°	469.8	452.1	462.4	478.4	482.5
72.5°	375.6	360.7	376.0	389.8	392.2
75°	284.7	274.9	294.7	304.7	308.3
77.5°	202.0	199.2	216.6	226.5	230.9
80°	131.0	135.0	148.7	159.9	162.2
82.5°	74.7	80.5	93.4	108.5	114.4
85°	34.9	41.2	54.6	67.0	72.6
87.5°	11.7	16.3	23.2	25.4	24.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1498452

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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	17.50	19.08	17.86	19.39	19.71	17.43	19.02	17.80	19.33	19.65
	3H	18.98	20.40	19.35	20.73	21.09	19.02	20.44	19.40	20.77	21.13
	4H	19.41	20.75	19.81	21.10	21.48	19.52	20.86	19.92	21.21	21.59
	6H	19.63	20.87	20.04	21.24	21.63	19.83	21.07	20.24	21.43	21.82
	8H	19.67	20.85	20.09	21.24	21.64	19.91	21.10	20.34	21.48	21.88
	12H	19.67	20.80	20.10	21.18	21.61	19.97	21.10	20.40	21.49	21.91
4H	2H	18.02	19.36	18.42	19.71	20.08	17.97	19.31	18.37	19.66	20.03
	3H	19.68	20.80	20.09	21.20	21.60	19.75	20.86	20.16	21.26	21.66
	4H	20.21	21.21	20.64	21.63	22.06	20.36	21.37	20.79	21.78	22.22
	6H	20.51	21.38	20.96	21.82	22.28	20.76	21.64	21.22	22.08	22.54
	8H	20.56	21.38	21.02	21.82	22.29	20.88	21.70	21.34	22.14	22.61
	12H	20.58	21.31	21.06	21.79	22.26	20.97	21.71	21.45	22.18	22.65
8H	4H	20.41	21.23	20.88	21.67	22.14	20.55	21.37	21.02	21.81	22.28
	6H	20.78	21.46	21.28	21.95	22.42	21.04	21.71	21.53	22.20	22.68
	8H	20.86	21.47	21.38	21.98	22.46	21.20	21.81	21.72	22.32	22.80
	12H	20.91	21.44	21.42	21.93	22.50	21.35	21.89	21.86	22.38	22.94
12H	4H	20.42	21.15	20.90	21.63	22.10	20.55	21.29	21.04	21.76	22.23
	6H	20.80	21.40	21.31	21.91	22.40	21.04	21.65	21.55	22.16	22.64
	8H	20.92	21.45	21.43	21.94	22.51	21.25	21.79	21.76	22.28	22.84