

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: P1498422

Luminaire Tested: MAE-G-2-120-2LO-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498422
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-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

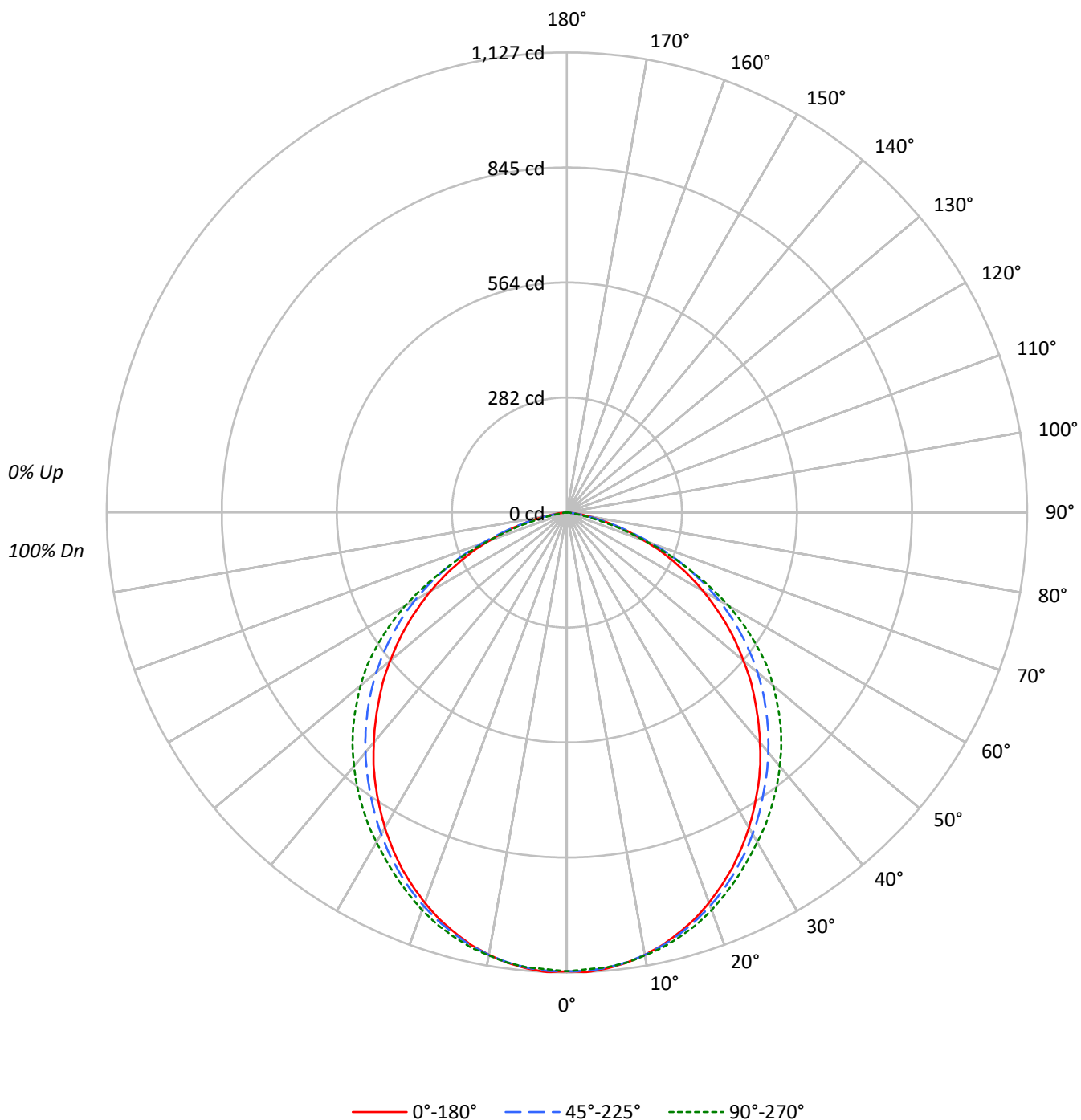
Lumens per Lamp: N/A
Luminaire Lumens: 2837.0 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 24.5
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	102	98	107	103	100	97	99	96	93		95	93	91		92
2	100	93	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		75	69	65		72
4	84	73	64	58	82	71	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	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	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	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3024	3024	3024
5°	3030	3025	3022
10°	3007	3007	3011
15°	2966	2977	2995
20°	2914	2938	2968
25°	2849	2886	2929
30°	2770	2827	2898
35°	2683	2758	2876
40°	2583	2696	2849
45°	2478	2629	2817
50°	2363	2550	2761
55°	2233	2448	2657
60°	2075	2310	2467
65°	1871	2099	2112
70°	1597	1747	1633
75°	1254	1265	1020
80°	815	651	391
85°	377	247	201

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2817 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	3.7
10°-20°	301.1	10.6
20°-30°	447.2	15.8
30°-40°	526.8	18.6
40°-50°	533.7	18.8
50°-60°	464.5	16.4
60°-70°	316.5	11.2
70°-80°	126.5	4.5
80°-90°	14.5	0.5
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°	854.4	30.1
0°-40°	1381.2	48.7
0°-60°	2379.5	83.9
0°-90°	2837.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2837.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1122	1115	1120	1118	1119	106
15°	1065	1060	1068	1072	1075	300
25°	959	960	972	980	987	441
35°	817	821	840	862	876	510
45°	651	659	691	723	740	502
55°	476	486	522	554	566	425
65°	294	308	330	330	332	291
75°	121	128	122	105	98	130
85°	12	11	8	7	6	19
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1123.9	1123.9	1123.9	1123.9	1123.9
2.5°	1127.0	1119.7	1123.9	1123.1	1120.1
5°	1121.6	1115.1	1119.7	1118.2	1118.6
7.5°	1112.8	1106.8	1111.7	1111.3	1112.5
10°	1100.3	1094.2	1100.3	1100.6	1101.8
12.5°	1084.6	1079.3	1086.5	1088.0	1090.7
15°	1064.7	1060.2	1068.5	1072.4	1075.0
17.5°	1043.4	1040.4	1048.7	1053.7	1057.9
20°	1017.4	1015.9	1025.9	1030.8	1036.5
22.5°	989.2	988.4	1000.3	1006.4	1012.1
25°	959.4	959.8	972.0	980.1	986.6
27.5°	926.6	927.3	942.3	951.8	959.8
30°	891.5	893.4	909.8	922.8	932.7
32.5°	854.5	857.9	875.5	893.4	906.0
35°	816.7	820.6	839.6	861.7	875.5
37.5°	777.8	782.0	804.1	830.1	844.6
40°	735.4	741.9	767.5	796.1	810.9
42.5°	693.8	701.0	729.7	761.0	777.0
45°	651.1	659.1	690.7	723.2	740.3
47.5°	609.8	616.7	650.7	684.7	699.9
50°	564.5	573.6	609.1	643.1	659.4
52.5°	520.9	529.7	566.0	600.7	617.5
55°	475.9	486.2	521.7	554.5	566.3
57.5°	430.5	442.3	476.7	503.7	514.0
60°	385.5	397.3	429.3	450.7	458.4
62.5°	340.0	352.2	380.5	393.5	395.0
65°	293.9	307.6	329.7	330.1	331.7
67.5°	250.0	261.4	277.4	272.9	270.6
70°	203.0	215.6	222.1	213.0	207.6
72.5°	161.4	170.6	169.5	156.0	149.6
75°	120.6	127.9	121.7	104.6	98.1
77.5°	83.6	89.7	77.4	61.4	55.0
80°	52.6	55.3	42.0	29.8	25.2
82.5°	28.3	27.8	18.0	14.8	13.7
85°	12.2	11.0	8.0	7.3	6.5
87.5°	4.2	3.8	3.0	2.7	2.3
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	14.76	16.34	15.13	16.66	16.97	15.72	17.30	16.09	17.62	17.93
	3H	16.18	17.60	16.56	17.93	18.29	16.91	18.33	17.29	18.66	19.02
	4H	16.58	17.91	16.97	18.26	18.63	17.13	18.46	17.53	18.81	19.18
	6H	16.75	17.98	17.16	18.35	18.74	17.14	18.38	17.56	18.74	19.13
	8H	16.76	17.94	17.19	18.32	18.72	17.12	18.29	17.55	18.68	19.08
	12H	16.75	17.87	17.18	18.26	18.69	17.10	18.22	17.53	18.60	19.03
4H	2H	15.42	16.75	15.82	17.10	17.48	16.20	17.53	16.59	17.88	18.25
	3H	17.00	18.10	17.41	18.50	18.90	17.55	18.65	17.96	19.05	19.45
	4H	17.48	18.47	17.91	18.88	19.32	17.81	18.81	18.25	19.22	19.66
	6H	17.72	18.58	18.17	19.02	19.48	17.87	18.73	18.32	19.17	19.63
	8H	17.74	18.54	18.20	18.98	19.45	17.84	18.64	18.30	19.09	19.55
	12H	17.74	18.45	18.22	18.93	19.40	17.82	18.54	18.30	19.01	19.48
8H	4H	17.61	18.42	18.07	18.86	19.33	17.93	18.73	18.39	19.17	19.64
	6H	17.89	18.55	18.38	19.04	19.52	17.99	18.65	18.48	19.14	19.62
	8H	17.93	18.52	18.44	19.03	19.51	17.96	18.56	18.48	19.06	19.55
	12H	17.94	18.46	18.45	18.95	19.51	17.95	18.47	18.46	18.96	19.53
12H	4H	17.59	18.31	18.08	18.79	19.26	17.92	18.63	18.40	19.11	19.58
	6H	17.86	18.45	18.37	18.96	19.45	17.96	18.56	18.48	19.07	19.55
	8H	17.92	18.44	18.43	18.93	19.50	17.96	18.48	18.47	18.98	19.54