

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: P1498998

Luminaire Tested: MAE-G-4-120-1LO-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1LO-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

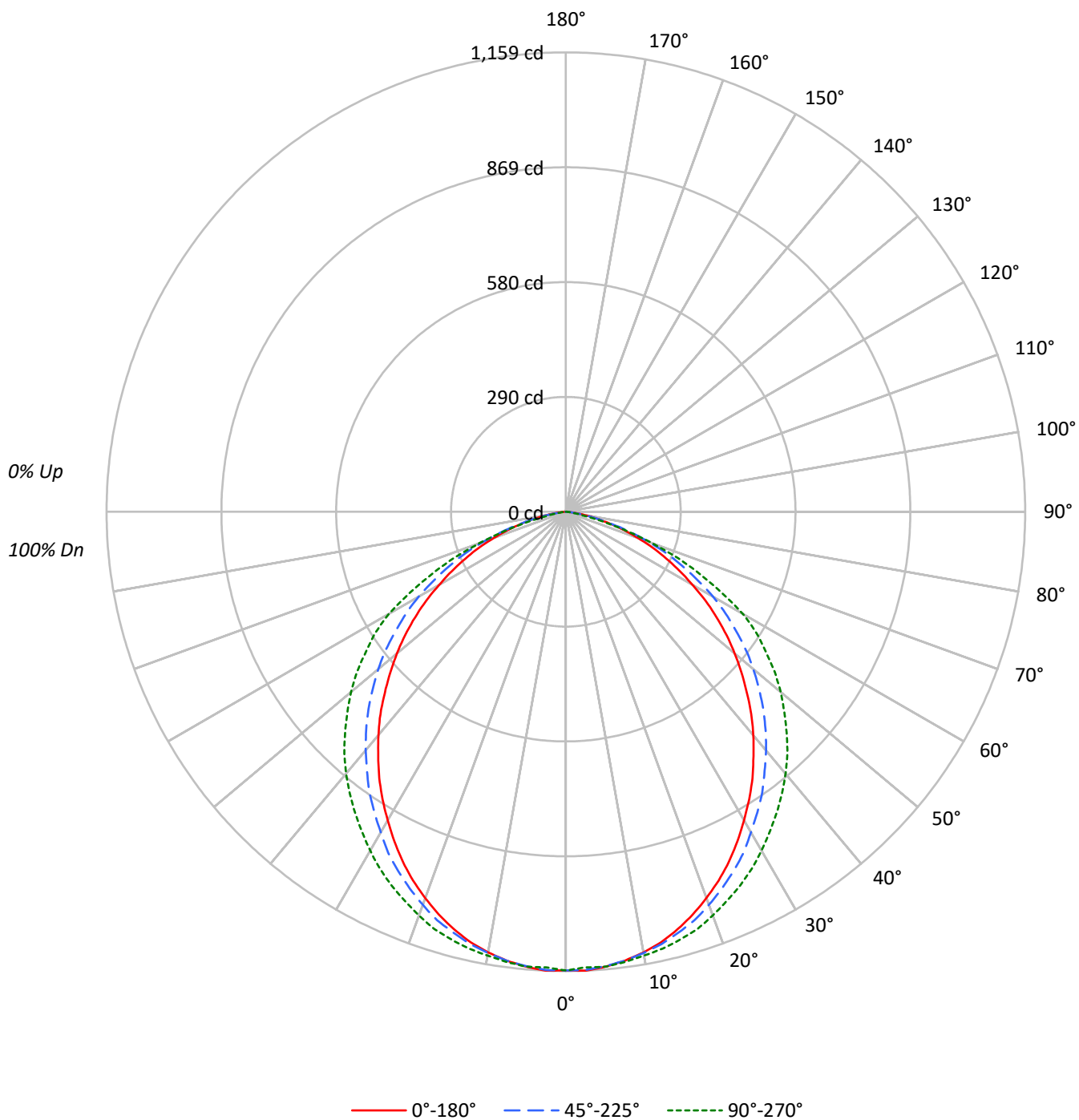
Lumens per Lamp: N/A
Luminaire Lumens: 2913.0 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	74	68	90	80	73	67	77	71	66	75	70	65	72	68	64	62		
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53		
5	78	65	57	50	76	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	55	48	43	53	47	43	41		
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	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°	1557	1557	1557
5°	1556	1554	1556
10°	1542	1544	1554
15°	1519	1531	1556
20°	1485	1511	1552
25°	1446	1485	1545
30°	1397	1451	1534
35°	1348	1419	1523
40°	1293	1380	1515
45°	1229	1340	1498
50°	1164	1293	1481
55°	1090	1230	1445
60°	995	1156	1389
65°	890	1033	1193
70°	760	871	910
75°	588	632	510
80°	387	336	181
85°	205	154	103

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1498 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.2	3.8
10°-20°	310.5	10.7
20°-30°	461.7	15.9
30°-40°	542.9	18.6
40°-50°	547.9	18.8
50°-60°	475.7	16.3
60°-70°	323.8	11.1
70°-80°	126.1	4.3
80°-90°	15.1	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°	881.5	30.3
0°-40°	1424.4	48.9
0°-60°	2448.0	84.0
0°-90°	2913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2913.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1157	1157	1157	1157	1157	
5°	1152	1150	1150	1150	1152	109
15°	1090	1092	1099	1110	1117	307
25°	974	979	1001	1026	1040	448
35°	821	831	864	904	927	513
45°	646	663	704	759	788	499
55°	464	480	524	584	616	415
65°	280	293	325	360	375	278
75°	113	120	122	110	98	123
85°	13	13	10	8	7	19
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1157.1	1157.1	1157.1	1157.1	1157.1
2.5°	1158.7	1158.7	1157.1	1152.1	1150.4
5°	1152.1	1150.4	1150.4	1150.4	1152.1
7.5°	1142.1	1142.1	1142.1	1143.7	1145.4
10°	1128.8	1128.8	1130.4	1133.8	1137.1
12.5°	1112.1	1113.8	1117.1	1123.8	1128.8
15°	1090.5	1092.1	1098.8	1110.4	1117.1
17.5°	1065.5	1070.5	1080.5	1093.8	1103.8
20°	1037.2	1042.2	1055.5	1072.2	1083.8
22.5°	1007.2	1012.2	1028.9	1048.9	1062.2
25°	973.9	978.9	1000.6	1025.5	1040.5
27.5°	937.3	944.0	970.6	997.2	1015.6
30°	899.0	907.3	934.0	967.3	987.3
32.5°	860.7	870.7	899.0	937.3	957.3
35°	820.8	830.8	864.1	904.0	927.3
37.5°	777.5	789.1	824.1	872.4	895.7
40°	735.9	747.5	785.8	837.4	862.4
42.5°	692.6	705.9	745.8	799.1	827.4
45°	646.0	662.6	704.2	759.2	787.5
47.5°	601.0	616.0	660.9	717.5	747.5
50°	556.1	572.7	617.7	675.9	707.6
52.5°	511.1	526.1	572.7	631.0	664.3
55°	464.5	479.5	524.4	584.4	616.0
57.5°	417.9	436.2	477.8	536.1	571.0
60°	369.6	386.2	429.5	487.8	516.1
62.5°	324.6	339.6	376.3	431.2	444.5
65°	279.7	293.0	324.6	359.6	374.6
67.5°	238.1	248.1	276.4	299.7	306.3
70°	193.1	203.1	221.4	234.7	231.4
72.5°	153.2	159.8	171.5	169.8	161.5
75°	113.2	119.9	121.5	109.9	98.2
77.5°	79.9	83.2	78.2	61.6	49.9
80°	49.9	51.6	43.3	26.6	23.3
82.5°	28.3	28.3	20.0	16.6	13.3
85°	13.3	13.3	10.0	8.3	6.7
87.5°	5.0	5.0	3.3	3.3	3.3
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	12.14	13.72	12.51	14.03	14.35	13.72	15.30	14.09	15.61	15.93
	3H	13.48	14.90	13.86	15.22	15.58	14.99	16.41	15.37	16.73	17.10
	4H	13.85	15.18	14.24	15.52	15.90	15.19	16.52	15.58	16.86	17.24
	6H	14.01	15.24	14.42	15.60	15.99	15.18	16.41	15.59	16.78	17.17
	8H	14.02	15.19	14.45	15.58	15.98	15.16	16.33	15.58	16.72	17.12
	12H	14.02	15.14	14.45	15.52	15.95	15.13	16.25	15.56	16.63	17.06
4H	2H	12.81	14.14	13.21	14.48	14.86	14.10	15.43	14.50	15.78	16.15
	3H	14.30	15.41	14.71	15.80	16.21	15.54	16.64	15.95	17.04	17.44
	4H	14.75	15.74	15.18	16.15	16.59	15.79	16.78	16.22	17.19	17.63
	6H	14.97	15.83	15.43	16.27	16.73	15.82	16.67	16.27	17.12	17.58
	8H	15.00	15.80	15.46	16.24	16.71	15.79	16.59	16.25	17.03	17.50
	12H	15.00	15.71	15.48	16.19	16.66	15.77	16.48	16.25	16.96	17.43
8H	4H	14.90	15.71	15.37	16.15	16.62	15.87	16.67	16.34	17.12	17.58
	6H	15.16	15.82	15.66	16.31	16.79	15.91	16.56	16.40	17.06	17.53
	8H	15.21	15.79	15.72	16.30	16.79	15.88	16.47	16.39	16.98	17.47
	12H	15.23	15.75	15.74	16.24	16.80	15.87	16.38	16.37	16.88	17.44
12H	4H	14.89	15.60	15.37	16.08	16.55	15.86	16.57	16.34	17.05	17.52
	6H	15.13	15.73	15.65	16.23	16.72	15.88	16.47	16.39	16.98	17.47
	8H	15.20	15.72	15.71	16.21	16.78	15.88	16.40	16.39	16.89	17.45