

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: P1498140

Luminaire Tested: MAE-G-2-120-1LO-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498140
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-2-120-1LO-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

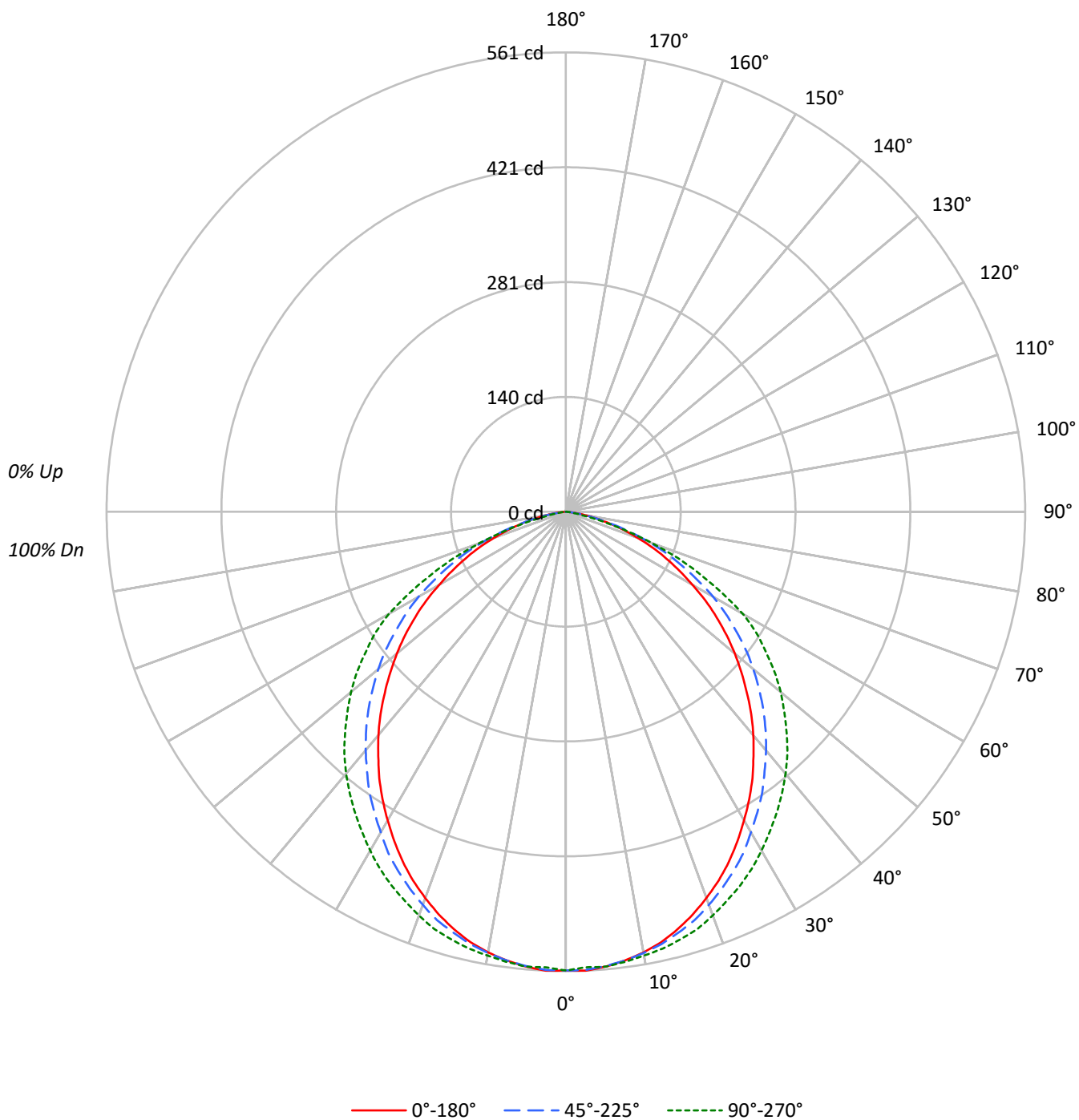
Lumens per Lamp: N/A
Luminaire Lumens: 1410.0 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 12.2
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: P1498140

CATALOG NUMBER: MAE-G-2-120-1LO-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	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	92	82	74	68	90	80	73	67	77	71	66		75	70	65		72
4	84	73	65	58	82	72	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		55	48	43		53
7	67	54	45	39	65	53	45	39	51	44	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1507	1507	1507
5°	1506	1504	1506
10°	1493	1495	1504
15°	1470	1482	1506
20°	1438	1463	1502
25°	1400	1438	1496
30°	1352	1405	1485
35°	1305	1374	1475
40°	1251	1336	1466
45°	1190	1297	1451
50°	1127	1252	1434
55°	1055	1191	1399
60°	963	1119	1344
65°	862	1000	1154
70°	736	843	881
75°	570	611	494
80°	375	325	175
85°	198	148	99

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1451 cd/sqm

TEST NUMBER: P1498140

CATALOG NUMBER: MAE-G-2-120-1LO-50-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.9	3.8
10°-20°	150.3	10.7
20°-30°	223.5	15.9
30°-40°	262.8	18.6
40°-50°	265.2	18.8
50°-60°	230.3	16.3
60°-70°	156.7	11.1
70°-80°	61.1	4.3
80°-90°	7.3	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°	426.7	30.3
0°-40°	689.4	48.9
0°-60°	1184.9	84.0
0°-90°	1410.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1410.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	560	560	560	560	560	
5°	558	557	557	557	558	53
15°	528	529	532	538	541	149
25°	471	474	484	496	504	217
35°	397	402	418	438	449	248
45°	313	321	341	368	381	241
55°	225	232	254	283	298	201
65°	135	142	157	174	181	134
75°	55	58	59	53	48	60
85°	6	6	5	4	3	9
90°	0	0	0	0	0	

TEST NUMBER: P1498140

CATALOG NUMBER: MAE-G-2-120-1LO-50-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	560.1	560.1	560.1	560.1	560.1
2.5°	560.9	560.9	560.1	557.6	556.8
5°	557.6	556.8	556.8	556.8	557.6
7.5°	552.8	552.8	552.8	553.6	554.4
10°	546.4	546.4	547.2	548.8	550.4
12.5°	538.3	539.1	540.7	543.9	546.4
15°	527.8	528.6	531.9	537.5	540.7
17.5°	515.7	518.2	523.0	529.4	534.3
20°	502.0	504.5	510.9	519.0	524.6
22.5°	487.5	490.0	498.0	507.7	514.1
25°	471.4	473.8	484.3	496.4	503.7
27.5°	453.7	456.9	469.8	482.7	491.6
30°	435.2	439.2	452.1	468.2	477.9
32.5°	416.6	421.5	435.2	453.7	463.4
35°	397.3	402.1	418.2	437.6	448.9
37.5°	376.3	382.0	398.9	422.3	433.5
40°	356.2	361.8	380.4	405.3	417.4
42.5°	335.2	341.7	361.0	386.8	400.5
45°	312.7	320.7	340.9	367.5	381.2
47.5°	290.9	298.2	319.9	347.3	361.8
50°	269.2	277.2	299.0	327.2	342.5
52.5°	247.4	254.6	277.2	305.4	321.5
55°	224.8	232.1	253.8	282.9	298.2
57.5°	202.3	211.1	231.3	259.5	276.4
60°	178.9	187.0	207.9	236.1	249.8
62.5°	157.1	164.4	182.1	208.7	215.2
65°	135.4	141.8	157.1	174.1	181.3
67.5°	115.2	120.1	133.8	145.1	148.3
70°	93.5	98.3	107.2	113.6	112.0
72.5°	74.1	77.4	83.0	82.2	78.2
75°	54.8	58.0	58.8	53.2	47.5
77.5°	38.7	40.3	37.9	29.8	24.2
80°	24.2	25.0	21.0	12.9	11.3
82.5°	13.7	13.7	9.7	8.1	6.4
85°	6.4	6.4	4.8	4.0	3.2
87.5°	2.4	2.4	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1498140

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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	12.03	13.61	12.39	13.92	14.24	13.61	15.19	13.97	15.50	15.82
	3H	13.36	14.78	13.74	15.11	15.47	14.88	16.30	15.26	16.62	16.98
	4H	13.73	15.06	14.13	15.41	15.79	15.07	16.40	15.47	16.75	17.13
	6H	13.90	15.12	14.31	15.49	15.88	15.07	16.30	15.48	16.66	17.06
	8H	13.91	15.08	14.34	15.47	15.87	15.04	16.21	15.47	16.60	17.00
	12H	13.90	15.02	14.33	15.41	15.83	15.02	16.14	15.45	16.52	16.95
4H	2H	12.69	14.02	13.09	14.37	14.75	13.99	15.32	14.38	15.66	16.04
	3H	14.19	15.29	14.60	15.69	16.09	15.42	16.53	15.83	16.92	17.33
	4H	14.63	15.62	15.07	16.04	16.47	15.68	16.67	16.11	17.08	17.52
	6H	14.86	15.72	15.32	16.16	16.62	15.70	16.56	16.16	17.00	17.46
	8H	14.88	15.68	15.35	16.13	16.59	15.68	16.48	16.14	16.92	17.39
	12H	14.89	15.60	15.37	16.08	16.55	15.66	16.37	16.14	16.85	17.32
8H	4H	14.79	15.59	15.25	16.04	16.50	15.76	16.56	16.22	17.01	17.47
	6H	15.05	15.71	15.55	16.20	16.68	15.79	16.45	16.29	16.94	17.42
	8H	15.09	15.68	15.61	16.19	16.68	15.77	16.36	16.28	16.87	17.35
	12H	15.11	15.63	15.62	16.12	16.69	15.75	16.27	16.26	16.76	17.33
12H	4H	14.77	15.49	15.25	15.97	16.44	15.75	16.46	16.23	16.94	17.41
	6H	15.02	15.61	15.54	16.12	16.61	15.77	16.36	16.28	16.87	17.35
	8H	15.09	15.61	15.60	16.10	16.67	15.77	16.28	16.27	16.78	17.34