

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: P1498182

Luminaire Tested: MAE-G-2-120-1LO-LO-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498182
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-LO-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

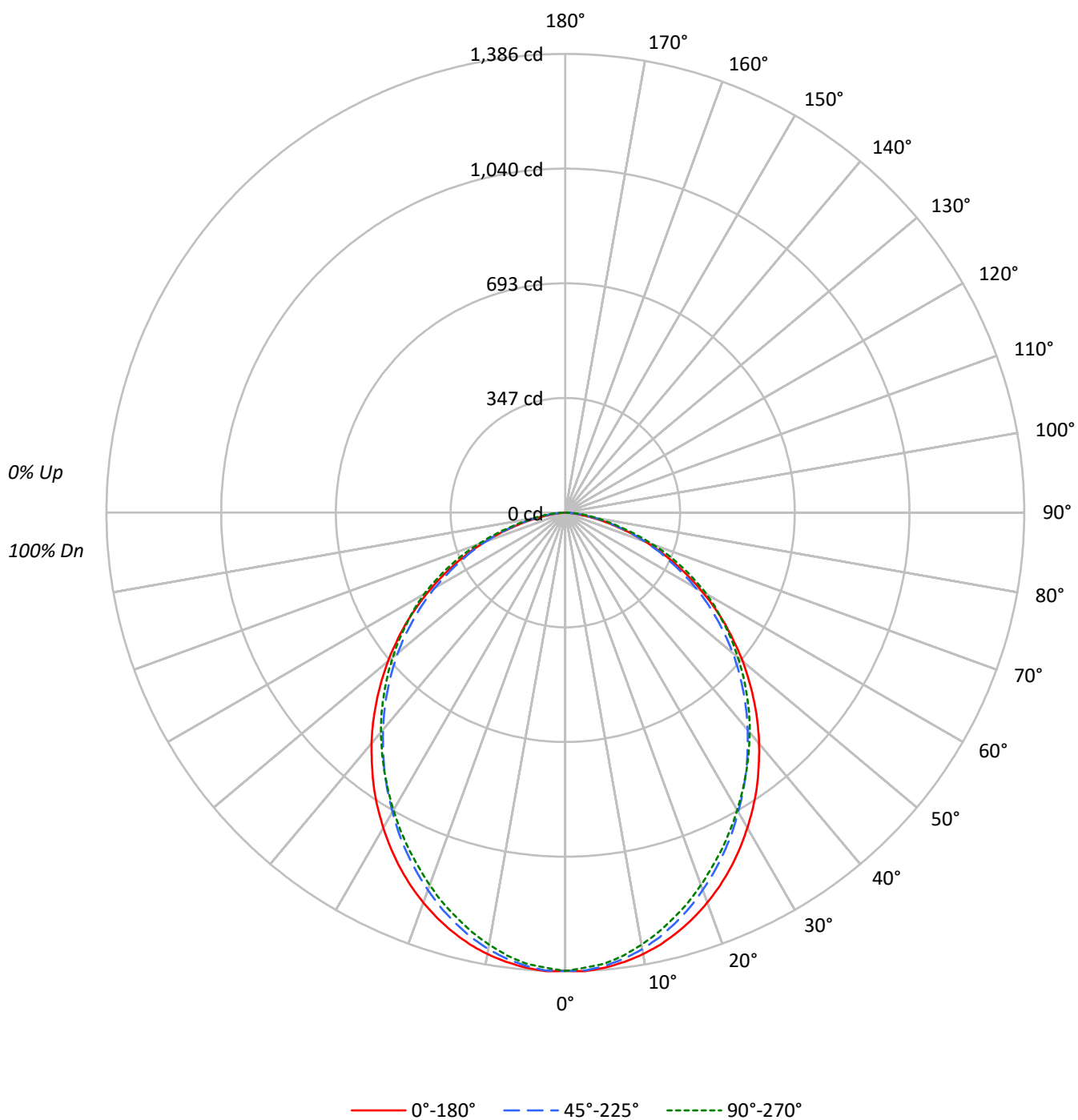
Lumens per Lamp: N/A
Luminaire Lumens: 3308.0 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 36.7
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	102	102	100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	74	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	63	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	34	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	28	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3726	3726	3726
5°	3728	3713	3695
10°	3701	3659	3622
15°	3655	3576	3530
20°	3591	3474	3429
25°	3512	3365	3325
30°	3417	3243	3225
35°	3315	3129	3131
40°	3198	3009	3044
45°	3068	2890	2947
50°	2929	2764	2847
55°	2768	2617	2743
60°	2569	2449	2652
65°	2339	2232	2474
70°	2031	2012	2216
75°	1622	1722	1839
80°	1124	1342	1477
85°	630	1031	1349

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3068 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.0	3.9
10°-20°	362.0	10.9
20°-30°	525.5	15.9
30°-40°	604.3	18.3
40°-50°	597.7	18.1
50°-60°	511.5	15.5
60°-70°	361.2	10.9
70°-80°	176.8	5.3
80°-90°	39.0	1.2
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°	1017.5	30.8
0°-40°	1621.8	49.0
0°-60°	2731.0	82.6
0°-90°	3308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3308.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1385	1385	1385	1385	1385	
5°	1380	1379	1375	1365	1368	131
15°	1312	1304	1284	1265	1267	370
25°	1183	1165	1133	1117	1120	544
35°	1009	984	952	947	953	630
45°	806	783	759	767	774	622
55°	590	569	558	573	585	527
65°	367	351	351	377	388	363
75°	156	149	166	176	177	168
85°	20	25	33	41	44	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1386.4	1387.6	1384.7	1374.2	1376.2
5°	1380.0	1378.9	1374.6	1364.6	1367.7
7.5°	1369.0	1367.0	1359.4	1347.5	1349.5
10°	1354.5	1350.6	1339.1	1324.1	1325.7
12.5°	1335.6	1330.3	1314.1	1296.9	1298.6
15°	1311.9	1304.2	1283.6	1265.4	1267.0
17.5°	1284.8	1275.9	1250.9	1231.0	1234.7
20°	1254.0	1242.1	1213.2	1194.3	1197.4
22.5°	1220.1	1205.2	1174.7	1156.4	1158.6
25°	1182.8	1164.7	1133.4	1117.3	1120.0
27.5°	1142.6	1122.7	1090.2	1075.4	1079.8
30°	1099.6	1078.2	1043.8	1033.1	1037.8
32.5°	1055.5	1032.7	998.7	991.2	995.8
35°	1009.1	984.3	952.4	947.2	953.1
37.5°	959.6	935.6	904.0	904.4	910.0
40°	910.4	885.6	856.5	859.6	866.4
42.5°	859.3	835.3	808.5	813.6	821.7
45°	806.1	783.0	759.4	766.9	774.4
47.5°	752.7	729.9	710.1	719.3	728.4
50°	699.6	677.6	660.2	671.5	680.0
52.5°	643.8	622.9	609.8	622.0	633.2
55°	589.9	568.6	557.8	572.7	584.7
57.5°	534.0	516.3	506.9	524.9	540.1
60°	477.4	460.0	455.0	478.4	492.8
62.5°	421.9	405.0	402.1	429.9	440.6
65°	367.4	350.7	350.6	377.0	388.5
67.5°	313.2	298.0	303.6	329.4	337.2
70°	258.1	244.5	255.7	277.7	281.7
72.5°	206.4	194.9	210.7	226.5	227.7
75°	156.0	148.9	165.6	176.4	176.9
77.5°	111.7	108.0	123.6	131.3	132.2
80°	72.5	74.1	86.6	92.8	95.3
82.5°	42.3	46.2	55.9	65.5	68.2
85°	20.4	25.0	33.4	40.7	43.7
87.5°	7.0	10.1	13.9	15.5	15.1
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	15.37	16.96	15.74	17.27	17.59	15.49	17.08	15.86	17.39	17.70
	3H	16.83	18.25	17.20	18.58	18.94	17.15	18.58	17.53	18.90	19.27
	4H	17.26	18.60	17.66	18.94	19.32	17.67	19.01	18.07	19.36	19.73
	6H	17.48	18.72	17.89	19.08	19.47	17.98	19.22	18.39	19.58	19.97
	8H	17.51	18.69	17.94	19.08	19.48	18.07	19.25	18.50	19.64	20.04
	12H	17.52	18.65	17.95	19.03	19.46	18.14	19.27	18.57	19.65	20.08
4H	2H	15.88	17.22	16.28	17.57	17.95	15.98	17.32	16.38	17.67	18.04
	3H	17.52	18.64	17.93	19.04	19.44	17.85	18.96	18.26	19.36	19.76
	4H	18.04	19.04	18.47	19.46	19.90	18.48	19.48	18.91	19.90	20.33
	6H	18.34	19.22	18.80	19.66	20.12	18.89	19.77	19.35	20.21	20.67
	8H	18.40	19.22	18.86	19.66	20.13	19.02	19.84	19.49	20.28	20.75
	12H	18.42	19.15	18.90	19.63	20.10	19.13	19.86	19.61	20.34	20.81
8H	4H	18.27	19.08	18.73	19.53	19.99	18.66	19.48	19.12	19.92	20.39
	6H	18.64	19.31	19.13	19.80	20.28	19.16	19.84	19.66	20.33	20.80
	8H	18.73	19.33	19.24	19.84	20.33	19.35	19.95	19.86	20.46	20.95
	12H	18.78	19.32	19.29	19.81	20.37	19.51	20.05	20.02	20.54	21.10
12H	4H	18.28	19.01	18.76	19.49	19.96	18.66	19.39	19.14	19.87	20.34
	6H	18.66	19.27	19.17	19.78	20.26	19.17	19.77	19.68	20.28	20.77
	8H	18.79	19.33	19.30	19.82	20.38	19.40	19.93	19.91	20.42	20.99