

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: P1499028

Luminaire Tested: MAE-G-4-120-1LO-HI-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499028
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-HI-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

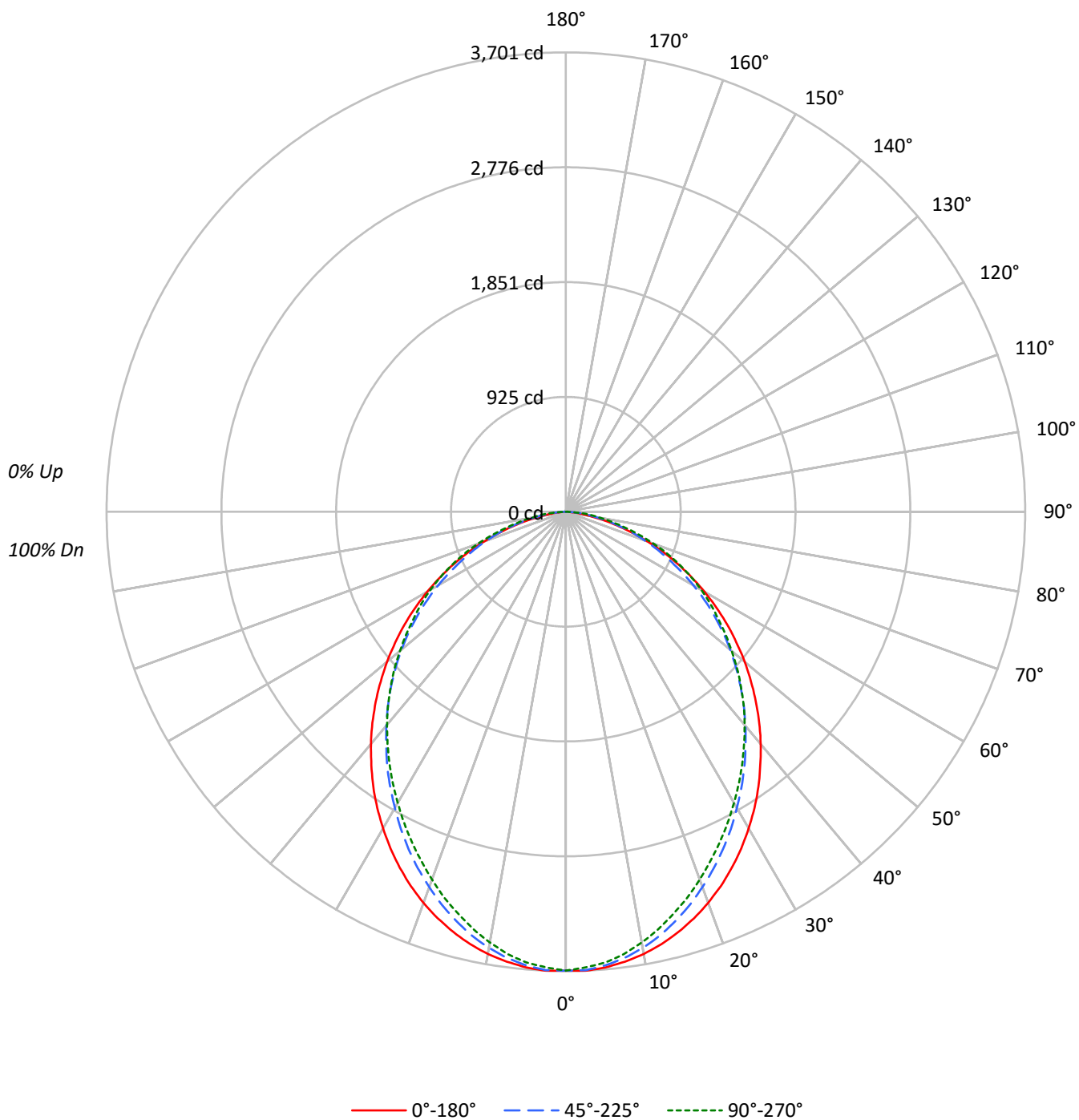
Lumens per Lamp: N/A
Luminaire Lumens: 8754.0 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.11 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 112.9
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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72
4	84	72	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	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	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4974	4974	4974
5°	4976	4955	4925
10°	4942	4876	4815
15°	4882	4754	4670
20°	4801	4607	4515
25°	4698	4450	4359
30°	4577	4280	4208
35°	4444	4118	4069
40°	4291	3952	3937
45°	4122	3789	3796
50°	3940	3618	3650
55°	3728	3423	3507
60°	3470	3200	3396
65°	3167	2928	3220
70°	2757	2670	2968
75°	2211	2342	2588
80°	1543	1906	2197
85°	868	1518	2038

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4122 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.6	4.0
10°-20°	962.4	11.0
20°-30°	1391.2	15.9
30°-40°	1593.7	18.2
40°-50°	1570.6	17.9
50°-60°	1340.6	15.3
60°-70°	953.0	10.9
70°-80°	482.9	5.5
80°-90°	113.0	1.3
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°	2700.1	30.8
0°-40°	4293.8	49.0
0°-60°	7205.0	82.3
0°-90°	8754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8754.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3697	3697	3697	3697	3697	
5°	3684	3682	3669	3638	3646	350
15°	3505	3481	3413	3351	3352	988
25°	3165	3106	2998	2935	2936	1457
35°	2706	2623	2507	2470	2477	1690
45°	2166	2086	1991	1986	1995	1671
55°	1589	1516	1459	1474	1495	1419
65°	995	936	920	983	1012	984
75°	425	400	450	490	498	458
85°	56	70	98	122	132	79
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3696.6	3696.6	3696.6	3696.6	3696.6
2.5°	3700.7	3704.4	3696.6	3666.5	3673.4
5°	3684.5	3681.8	3668.6	3637.5	3646.2
7.5°	3655.6	3649.5	3625.7	3587.8	3593.1
10°	3617.3	3605.1	3568.7	3520.6	3524.0
12.5°	3567.2	3549.9	3498.0	3441.5	3444.1
15°	3505.0	3480.6	3413.0	3350.7	3352.3
17.5°	3433.8	3403.8	3320.9	3252.8	3259.0
20°	3353.0	3313.7	3217.2	3150.0	3153.4
22.5°	3263.4	3214.7	3111.7	3044.4	3044.5
25°	3164.7	3106.4	2997.7	2935.3	2935.9
27.5°	3058.9	2994.1	2879.5	2820.0	2823.9
30°	2945.7	2874.9	2754.7	2704.1	2708.4
32.5°	2828.6	2752.8	2632.9	2589.6	2593.9
35°	2705.5	2623.3	2507.3	2470.4	2477.0
37.5°	2574.0	2493.7	2377.8	2354.3	2359.5
40°	2443.2	2360.3	2250.2	2233.4	2241.7
42.5°	2306.9	2225.7	2122.1	2110.7	2120.8
45°	2166.1	2086.0	1991.2	1986.1	1995.1
47.5°	2023.5	1945.2	1861.1	1860.1	1873.0
50°	1882.2	1805.6	1728.3	1733.7	1743.7
52.5°	1732.4	1659.9	1595.5	1603.2	1620.7
55°	1589.2	1515.7	1459.0	1474.2	1495.1
57.5°	1440.1	1376.0	1325.3	1351.1	1379.9
60°	1289.5	1227.1	1189.1	1231.5	1262.0
62.5°	1140.8	1080.4	1052.5	1110.5	1136.9
65°	994.8	936.2	919.8	983.4	1011.5
67.5°	848.3	795.9	799.1	866.5	887.4
70°	700.7	653.3	678.6	739.7	754.4
72.5°	560.7	521.9	564.6	614.4	622.7
75°	425.3	399.8	450.5	490.1	497.9
77.5°	305.1	291.9	342.8	375.3	384.2
80°	199.1	203.1	246.0	273.8	283.5
82.5°	116.5	128.4	163.2	194.5	204.3
85°	56.2	70.5	98.3	121.8	132.0
87.5°	19.3	28.8	41.6	46.3	45.0
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	16.41	17.99	16.78	18.31	18.62	16.26	17.85	16.63	18.16	18.47
	3H	17.88	19.31	18.26	19.64	20.00	18.01	19.43	18.38	19.76	20.12
	4H	18.32	19.66	18.72	20.01	20.39	18.59	19.93	18.99	20.28	20.66
	6H	18.55	19.79	18.97	20.16	20.55	18.98	20.22	19.40	20.59	20.98
	8H	18.59	19.78	19.02	20.16	20.56	19.11	20.29	19.54	20.68	21.08
	12H	18.60	19.73	19.03	20.11	20.54	19.20	20.33	19.63	20.72	21.14
4H	2H	16.90	18.24	17.30	18.59	18.96	16.78	18.12	17.17	18.46	18.84
	3H	18.56	19.68	18.97	20.08	20.48	18.73	19.85	19.14	20.24	20.64
	4H	19.09	20.09	19.52	20.51	20.95	19.44	20.45	19.87	20.86	21.30
	6H	19.40	20.28	19.86	20.72	21.18	19.95	20.83	20.41	21.27	21.73
	8H	19.47	20.29	19.93	20.73	21.19	20.12	20.94	20.58	21.38	21.85
	12H	19.49	20.23	19.97	20.70	21.17	20.25	20.99	20.73	21.47	21.94
8H	4H	19.33	20.15	19.79	20.59	21.06	19.64	20.46	20.11	20.91	21.37
	6H	19.72	20.40	20.21	20.88	21.36	20.25	20.93	20.75	21.42	21.90
	8H	19.81	20.42	20.33	20.93	21.42	20.49	21.09	21.00	21.60	22.09
	12H	19.87	20.41	20.38	20.90	21.46	20.69	21.23	21.20	21.72	22.28
12H	4H	19.35	20.08	19.83	20.56	21.03	19.65	20.38	20.13	20.86	21.33
	6H	19.75	20.36	20.26	20.87	21.35	20.26	20.87	20.78	21.38	21.87
	8H	19.89	20.43	20.40	20.92	21.48	20.55	21.08	21.06	21.58	22.14

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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