

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: P1499589

Luminaire Tested: MAE-G-4-120-3LO-HI-30

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-3LO-HI-30
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

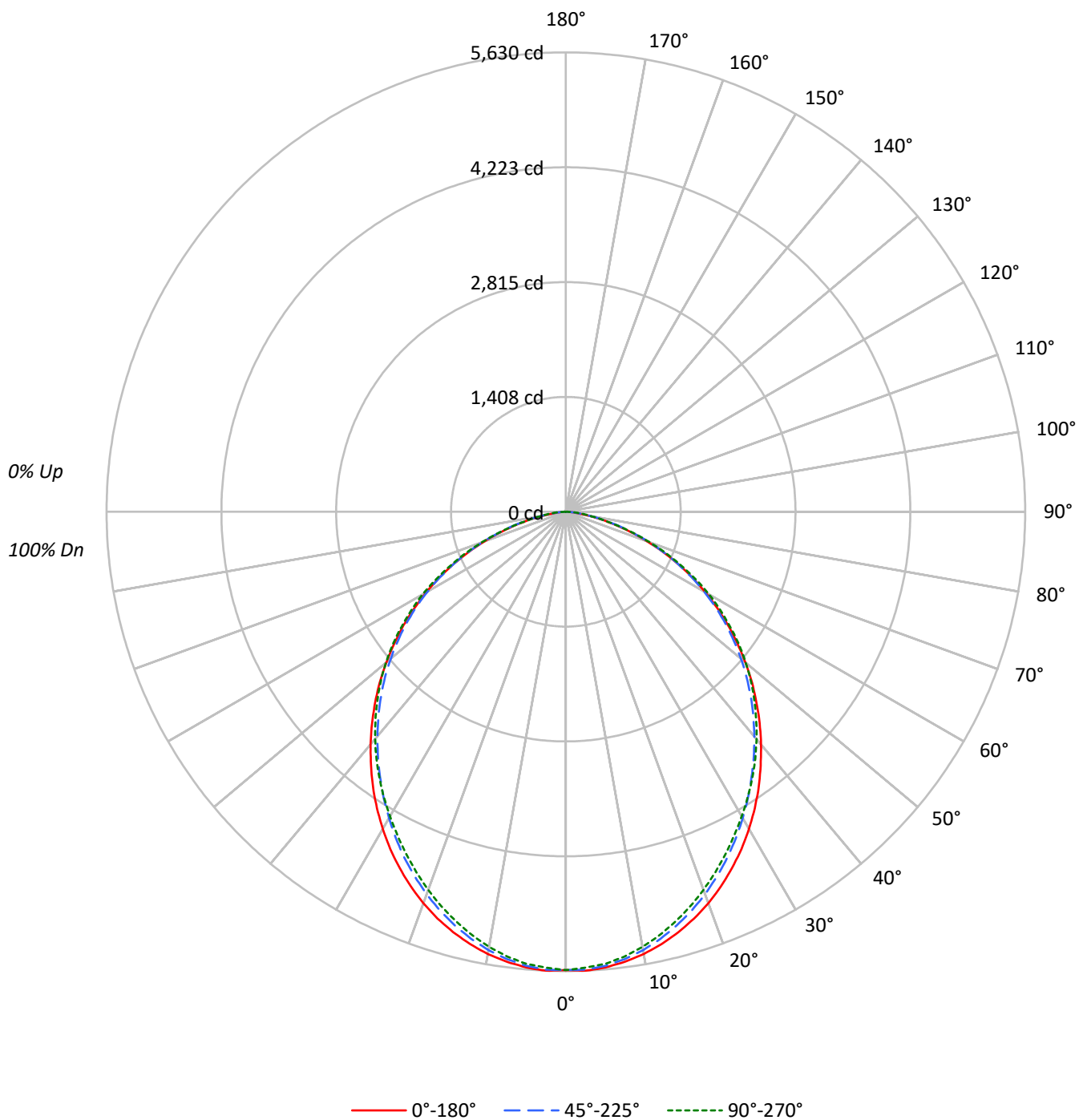
Lumens per Lamp: N/A
Luminaire Lumens: 13676.0 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 160.9
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

TEST NUMBER: P1499589

CATALOG NUMBER: MAE-G-4-120-3LO-HI-30

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	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	61	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	44	39	51	44	38		50	43	38		48
8	62	49	41	35	61	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	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7557	7557	7557
5°	7570	7543	7510
10°	7519	7452	7396
15°	7429	7311	7239
20°	7310	7141	7061
25°	7153	6949	6872
30°	6974	6735	6696
35°	6770	6520	6543
40°	6538	6310	6386
45°	6287	6099	6216
50°	6012	5865	6023
55°	5700	5597	5770
60°	5315	5263	5462
65°	4838	4828	4968
70°	4180	4249	4314
75°	3334	3475	3417
80°	2266	2438	2462
85°	1190	1661	2120

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6287 cd/sqm

TEST NUMBER: P1499589

CATALOG NUMBER: MAE-G-4-120-3LO-HI-30

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.2	3.9
10°-20°	1478.8	10.8
20°-30°	2161.8	15.8
30°-40°	2505.7	18.3
40°-50°	2500.3	18.3
50°-60°	2154.0	15.8
60°-70°	1508.6	11.0
70°-80°	703.8	5.1
80°-90°	134.8	1.0
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°	4168.8	30.5
0°-40°	6674.5	48.8
0°-60°	11328.8	82.8
0°-90°	13676.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13676.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5617	5617	5617	5617	5617	
5°	5605	5584	5585	5552	5561	532
15°	5334	5296	5249	5192	5197	1503
25°	4818	4760	4680	4619	4629	2219
35°	4122	4045	3969	3957	3984	2575
45°	3304	3238	3205	3238	3267	2549
55°	2430	2376	2386	2439	2460	2169
65°	1520	1490	1517	1551	1561	1502
75°	641	634	668	666	657	689
85°	77	87	108	128	137	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5616.9	5616.9	5616.9	5616.9	5616.9
2.5°	5629.5	5611.4	5616.9	5591.0	5590.7
5°	5604.9	5584.5	5584.8	5551.9	5560.7
7.5°	5561.7	5538.2	5529.1	5491.3	5498.4
10°	5503.2	5473.8	5454.6	5409.1	5413.6
12.5°	5425.4	5392.7	5360.9	5307.5	5314.2
15°	5333.5	5295.6	5248.8	5192.1	5197.0
17.5°	5227.2	5183.2	5125.7	5061.2	5071.1
20°	5105.5	5055.7	4987.4	4920.0	4931.7
22.5°	4968.7	4914.0	4837.9	4773.1	4783.1
25°	4818.5	4759.7	4680.5	4618.6	4628.9
27.5°	4660.1	4594.4	4511.0	4458.3	4470.3
30°	4488.8	4419.0	4334.7	4291.1	4309.8
32.5°	4308.0	4236.2	4155.2	4126.4	4149.0
35°	4121.5	4045.3	3969.3	3956.8	3983.6
37.5°	3921.5	3852.2	3782.8	3786.3	3813.2
40°	3722.5	3650.8	3592.7	3606.9	3636.1
42.5°	3516.5	3449.2	3400.9	3427.4	3453.8
45°	3304.0	3238.3	3205.0	3238.3	3267.0
47.5°	3093.3	3028.1	3006.8	3046.1	3078.6
50°	2872.0	2812.7	2801.7	2849.9	2877.6
52.5°	2648.9	2592.7	2595.1	2647.9	2676.4
55°	2429.7	2375.5	2386.1	2438.9	2459.6
57.5°	2201.8	2159.5	2175.0	2223.8	2247.3
60°	1975.1	1935.8	1955.7	2005.9	2029.8
62.5°	1747.5	1714.1	1737.7	1784.1	1796.5
65°	1519.6	1490.1	1516.6	1551.1	1560.6
67.5°	1288.2	1267.7	1298.4	1326.6	1331.1
70°	1062.5	1041.3	1080.2	1100.5	1096.5
72.5°	843.0	831.6	866.2	878.8	868.2
75°	641.3	634.2	668.4	666.0	657.3
77.5°	454.3	452.2	479.4	474.3	471.8
80°	292.5	300.6	314.6	319.7	317.7
82.5°	165.1	177.0	188.5	211.3	220.7
85°	77.1	86.7	107.6	128.3	137.3
87.5°	26.1	33.5	44.9	48.7	46.0
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	17.96	19.54	18.33	19.86	20.17	18.16	19.74	18.52	20.05	20.37
	3H	19.42	20.85	19.80	21.17	21.53	19.65	21.07	20.03	21.40	21.76
	4H	19.85	21.19	20.25	21.53	21.91	20.08	21.42	20.48	21.76	22.14
	6H	20.06	21.30	20.47	21.66	22.05	20.30	21.54	20.71	21.90	22.29
	8H	20.09	21.27	20.51	21.66	22.06	20.35	21.53	20.77	21.92	22.32
	12H	20.09	21.22	20.52	21.60	22.03	20.38	21.51	20.81	21.89	22.32
4H	2H	18.52	19.86	18.92	20.21	20.58	18.68	20.02	19.08	20.36	20.74
	3H	20.16	21.27	20.57	21.67	22.07	20.36	21.48	20.77	21.87	22.27
	4H	20.67	21.67	21.10	22.09	22.53	20.89	21.89	21.32	22.30	22.74
	6H	20.96	21.83	21.41	22.27	22.73	21.19	22.06	21.64	22.50	22.96
	8H	21.00	21.82	21.47	22.26	22.73	21.26	22.08	21.73	22.52	22.99
	12H	21.02	21.75	21.50	22.22	22.69	21.32	22.05	21.80	22.53	23.00
8H	4H	20.87	21.68	21.33	22.13	22.59	21.06	21.88	21.52	22.32	22.79
	6H	21.21	21.89	21.71	22.38	22.85	21.43	22.10	21.92	22.59	23.07
	8H	21.29	21.89	21.80	22.40	22.88	21.54	22.14	22.05	22.65	23.14
	12H	21.33	21.86	21.83	22.35	22.91	21.64	22.17	22.15	22.66	23.23
12H	4H	20.87	21.60	21.35	22.08	22.55	21.06	21.79	21.54	22.27	22.74
	6H	21.22	21.82	21.73	22.33	22.81	21.43	22.03	21.94	22.54	23.02
	8H	21.32	21.86	21.83	22.35	22.91	21.58	22.11	22.08	22.60	23.16