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: P1499607

Luminaire Tested: MAE-G-4-120-3LO-HI-50

Issue Date: 6/26/2026

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1499607
	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-50
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:	14544.0 lumens
Efficiency:	N/A
Efficacy:	90.4 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

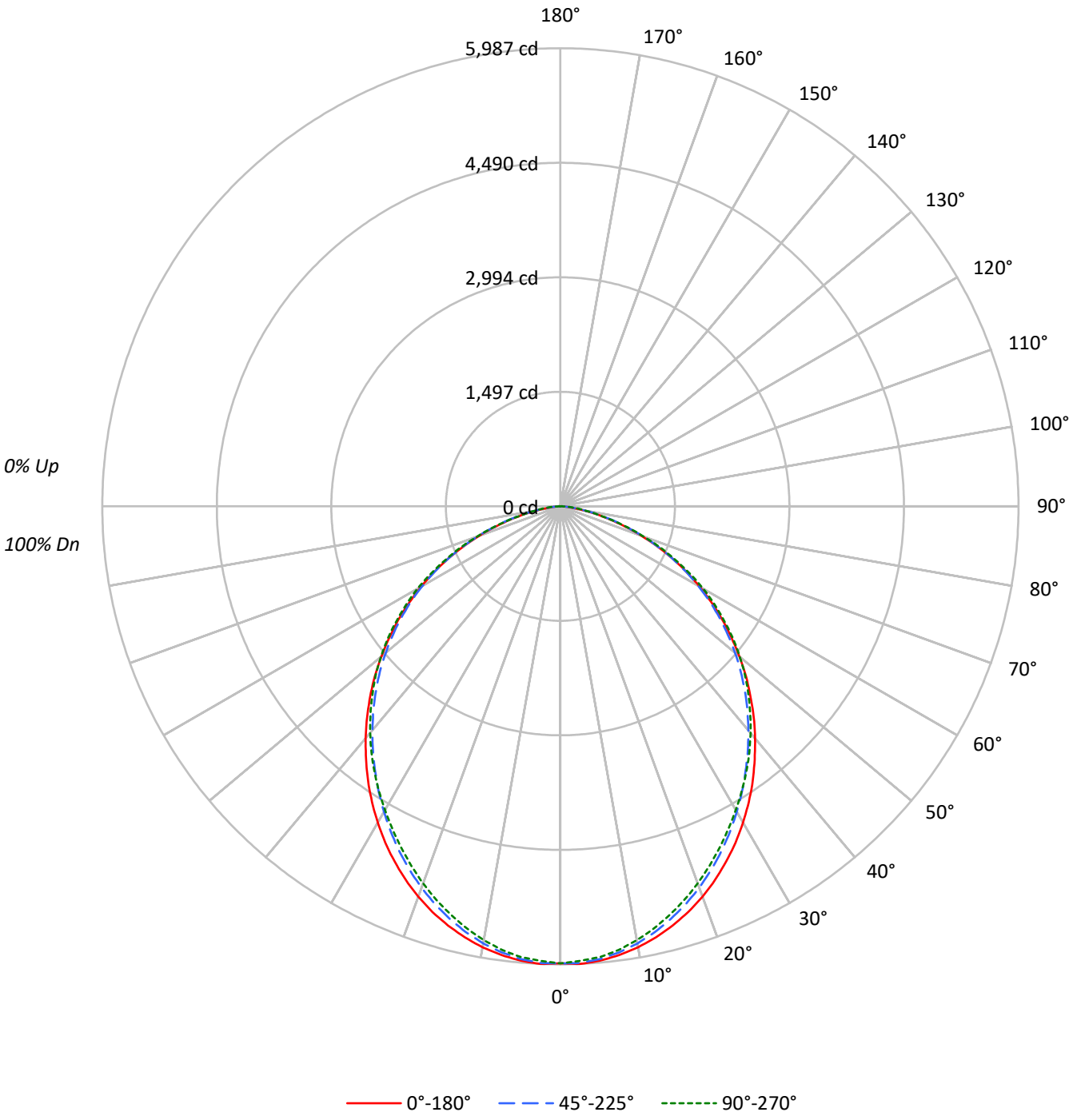
Input Watts (W):	160.9
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1499607
CATALOG NUMBER: MAE-G-4-120-3LO-HI-50

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1499607
CATALOG NUMBER: MAE-G-4-120-3LO-HI-50

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	98	90	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	53
5	78	65	56	50	75	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	54	48	43	53	47	42	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	34	46	39	34	44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8037	8037	8037
5°	8051	8022	7987
10°	7996	7925	7866
15°	7901	7775	7699
20°	7774	7594	7510
25°	7607	7390	7308
30°	7417	7162	7121
35°	7199	6933	6959
40°	6953	6711	6792
45°	6686	6485	6611
50°	6393	6237	6406
55°	6061	5952	6136
60°	5652	5597	5809
65°	5145	5135	5284
70°	4445	4519	4588
75°	3545	3695	3634
80°	2411	2592	2618
85°	1264	1768	2255

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6686 cd/sqm

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1499607
CATALOG NUMBER: MAE-G-4-120-3LO-HI-50

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.7	3.9
10°-20°	1572.7	10.8
20°-30°	2299.0	15.8
30°-40°	2664.7	18.3
40°-50°	2659.0	18.3
50°-60°	2290.7	15.8
60°-70°	1604.3	11.0
70°-80°	748.5	5.1
80°-90°	143.3	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°	4433.4	30.5
0°-40°	7098.1	48.8
0°-60°	12047.8	82.8
0°-90°	14544.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14544.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5973	5973	5973	5973	5973	
5°	5961	5939	5939	5904	5914	565
15°	5672	5632	5582	5522	5527	1598
25°	5124	5062	4978	4912	4923	2359
35°	4383	4302	4221	4208	4236	2739
45°	3514	3444	3408	3444	3474	2711
55°	2584	2526	2538	2594	2616	2306
65°	1616	1585	1613	1650	1660	1597
75°	682	674	711	708	699	733
85°	82	92	114	136	146	120
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1499607
CATALOG NUMBER: MAE-G-4-120-3LO-HI-50

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*5973.4*	5973.4	5973.4	5973.4	5973.4
2.5°	*5986.8*	*5967.6*	*5973.4*	*5945.8*	*5945.6*
5°	*5960.7*	5938.9	5939.2	5904.3	5913.6
7.5°	*5914.7*	5889.7	5880.1	5839.8	5847.3
10°	*5852.5*	5821.2	5800.7	5752.5	5757.2
12.5°	*5769.8*	5735.0	5701.2	5644.4	5651.4
15°	*5672.0*	5631.7	5582.0	5521.6	5526.9
17.5°	*5559.0*	5512.2	5451.0	5382.5	5393.0
20°	*5429.5*	5376.7	5304.0	5232.2	5244.7
22.5°	*5284.2*	5225.8	5144.9	5076.1	5086.7
25°	*5124.3*	5061.8	4977.5	4911.8	4922.7
27.5°	*4955.9*	4886.0	4797.4	4741.3	4754.0
30°	*4773.7*	4699.4	4609.8	4563.4	4583.4
32.5°	*4581.4*	4505.2	4418.9	4388.4	4412.3
35°	*4383.1*	4302.0	4221.2	4207.9	4236.5
37.5°	*4170.4*	4096.7	4022.9	4026.7	4055.3
40°	*3958.8*	3882.5	3820.7	3835.8	3866.9
42.5°	*3739.7*	3668.1	3616.8	3645.0	3672.9
45°	*3513.6*	3443.8	3408.3	3443.7	3474.4
47.5°	*3289.6*	3220.3	3197.6	3239.4	3274.0
50°	*3054.3*	2991.3	2979.4	3030.8	3060.2
52.5°	*2817.0*	2757.3	2759.8	2815.9	2846.2
55°	*2583.8*	2526.3	2537.5	2593.7	2615.7
57.5°	*2341.6*	2296.6	2313.0	2364.9	2389.8
60°	*2100.4*	2058.6	2079.8	2133.2	2158.6
62.5°	*1858.4*	1822.9	1848.0	1897.3	1910.5
65°	*1616.0*	1584.7	1612.9	1649.6	1659.6
67.5°	*1369.9*	1348.1	1380.9	1410.8	1415.7
70°	*1129.9*	1107.5	1148.7	1170.2	1166.2
72.5°	*896.5*	884.4	921.1	934.6	923.3
75°	*682.0*	674.5	710.8	708.2	699.0
77.5°	*483.2*	480.9	509.8	504.3	501.8
80°	*311.1*	319.8	334.5	339.9	337.9
82.5°	*175.6*	188.2	200.4	224.7	234.7
85°	*81.9*	92.2	114.5	136.4	146.1
87.5°	*27.8*	35.7	47.8	51.8	48.9
90°	*0.0*	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1499607
CATALOG NUMBER: MAE-G-4-120-3LO-HI-50

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	18.17	19.76	18.54	20.07	20.39	18.37	19.95	18.73	20.27	20.58
	3H	19.63	21.06	20.01	21.39	21.75	19.86	21.29	20.24	21.61	21.98
	4H	20.06	21.40	20.46	21.75	22.13	20.29	21.63	20.69	21.98	22.36
	6H	20.27	21.51	20.68	21.87	22.27	20.51	21.75	20.92	22.11	22.51
	8H	20.30	21.48	20.73	21.87	22.27	20.56	21.74	20.99	22.13	22.53
	12H	20.30	21.43	20.73	21.81	22.24	20.60	21.72	21.03	22.11	22.54
4H	2H	18.73	20.07	19.13	20.42	20.80	18.89	20.23	19.29	20.58	20.95
	3H	20.37	21.49	20.78	21.88	22.28	20.58	21.69	20.99	22.09	22.49
	4H	20.89	21.89	21.32	22.30	22.74	21.10	22.10	21.53	22.52	22.95
	6H	21.17	22.04	21.63	22.49	22.94	21.40	22.27	21.86	22.72	23.17
	8H	21.22	22.03	21.68	22.48	22.94	21.48	22.29	21.94	22.74	23.20
	12H	21.23	21.96	21.71	22.44	22.91	21.54	22.26	22.02	22.74	23.21
8H	4H	21.08	21.90	21.54	22.34	22.81	21.28	22.09	21.74	22.53	23.00
	6H	21.43	22.10	21.92	22.59	23.07	21.64	22.31	22.14	22.80	23.28
	8H	21.50	22.10	22.01	22.61	23.10	21.75	22.36	22.27	22.86	23.35
	12H	21.54	22.07	22.05	22.56	23.13	21.85	22.38	22.36	22.88	23.44
12H	4H	21.08	21.81	21.56	22.29	22.76	21.27	22.00	21.76	22.48	22.95
	6H	21.43	22.03	21.94	22.54	23.03	21.64	22.24	22.15	22.75	23.24
	8H	21.54	22.07	22.05	22.56	23.12	21.79	22.32	22.30	22.81	23.38

END OF REPORT