

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: P1499580

Luminaire Tested: MAE-G-4-120-3LO-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499580
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-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

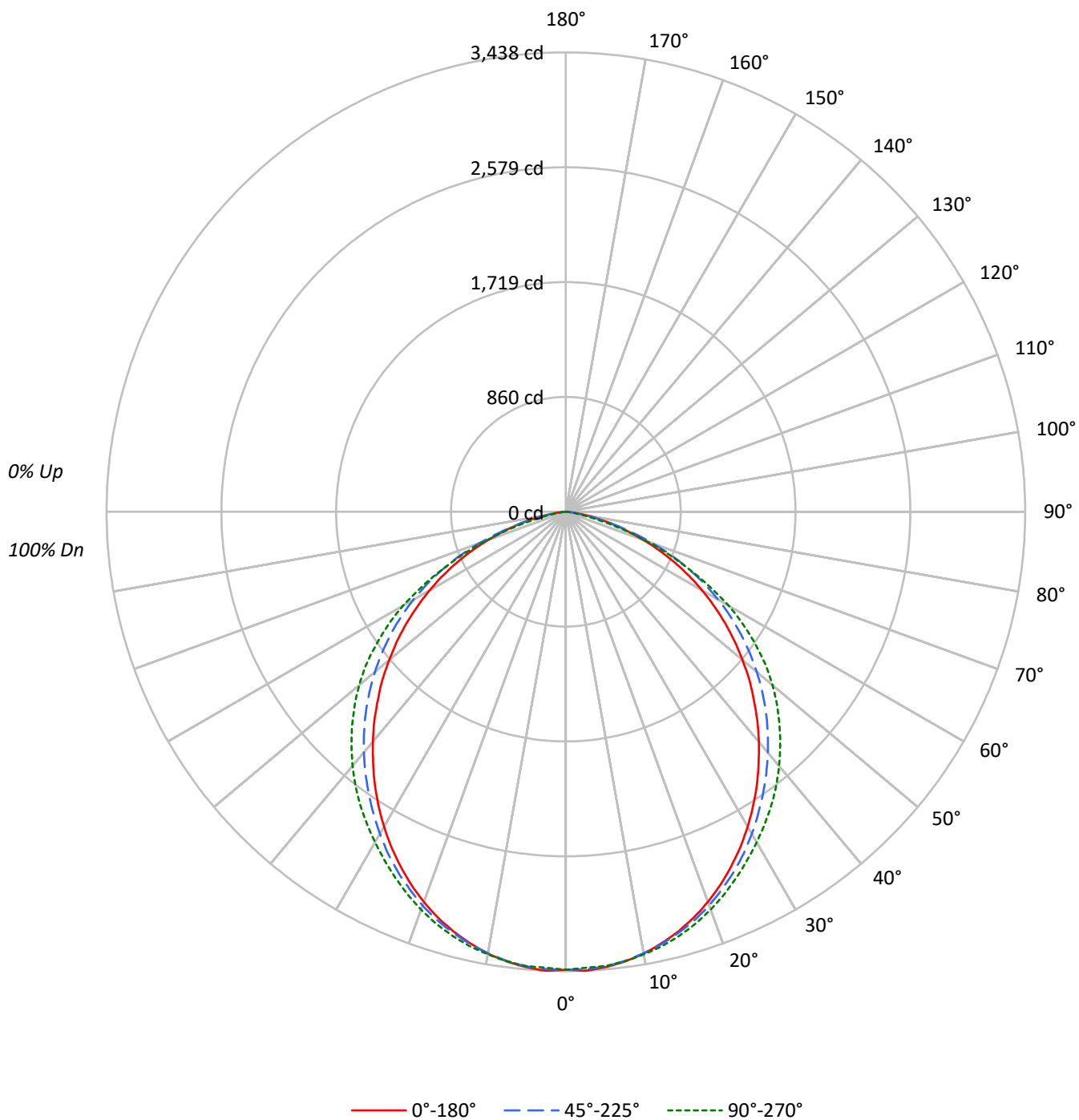
Lumens per Lamp: N/A
Luminaire Lumens: 8686.0 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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	110	105	102	98	107	103	100	96	99	96	93		95	93	91		92
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65
5	78	65	56	50	76	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	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	36	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4611	4611	4611
5°	4621	4611	4609
10°	4587	4585	4596
15°	4529	4543	4576
20°	4450	4491	4537
25°	4347	4416	4485
30°	4229	4325	4438
35°	4096	4226	4404
40°	3947	4131	4360
45°	3786	4029	4305
50°	3611	3904	4228
55°	3416	3753	4065
60°	3171	3546	3793
65°	2863	3234	3249
70°	2444	2715	2525
75°	1919	1981	1553
80°	1253	1019	601
85°	601	403	320

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4305 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.7	3.7
10°-20°	919.1	10.6
20°-30°	1366.9	15.7
30°-40°	1610.7	18.5
40°-50°	1633.1	18.8
50°-60°	1423.0	16.4
60°-70°	973.2	11.2
70°-80°	390.9	4.5
80°-90°	45.3	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°	2609.7	30.0
0°-40°	4220.4	48.6
0°-60°	7276.5	83.8
0°-90°	8686.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8686.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3427	3427	3427	3427	3427	
5°	3422	3401	3414	3410	3413	325
15°	3251	3237	3261	3275	3285	916
25°	2928	2929	2974	2996	3021	1348
35°	2494	2505	2573	2636	2681	1558
45°	1990	2016	2117	2212	2262	1536
55°	1456	1487	1600	1700	1733	1300
65°	899	940	1016	1024	1020	889
75°	369	394	381	327	299	397
85°	39	35	26	23	21	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3427.1	3427.1	3427.1	3427.1	3427.1
2.5°	3438.1	3415.2	3427.1	3424.6	3415.9
5°	3421.5	3400.8	3414.3	3410.5	3412.7
7.5°	3394.5	3375.6	3389.8	3389.1	3392.9
10°	3357.4	3338.3	3355.8	3359.0	3363.7
12.5°	3308.2	3292.4	3313.8	3320.1	3329.5
15°	3251.1	3236.9	3261.4	3274.9	3285.2
17.5°	3184.5	3172.6	3204.3	3217.1	3231.3
20°	3107.6	3099.1	3136.2	3148.1	3168.8
22.5°	3022.2	3017.4	3056.1	3074.4	3098.2
25°	2927.8	2928.6	2974.5	2996.1	3021.3
27.5°	2828.8	2830.4	2882.8	2912.7	2939.7
30°	2721.8	2726.5	2783.6	2820.9	2856.5
32.5°	2608.5	2618.0	2679.8	2730.6	2770.1
35°	2493.6	2504.6	2572.9	2636.2	2681.4
37.5°	2369.3	2387.5	2464.4	2539.7	2586.3
40°	2247.2	2265.4	2351.7	2434.9	2482.6
42.5°	2121.3	2144.2	2236.2	2328.8	2374.7
45°	1989.7	2016.5	2117.2	2212.3	2262.2
47.5°	1863.6	1887.5	1993.6	2092.7	2144.2
50°	1724.9	1755.1	1865.2	1969.1	2019.9
52.5°	1592.7	1620.4	1733.7	1840.0	1885.9
55°	1456.4	1487.3	1599.9	1700.4	1733.0
57.5°	1316.9	1354.2	1462.7	1546.8	1577.6
60°	1178.3	1215.5	1317.7	1386.7	1409.7
62.5°	1040.3	1080.1	1169.6	1215.5	1215.5
65°	899.3	939.8	1015.8	1023.7	1020.5
67.5°	758.3	798.8	856.6	842.2	832.8
70°	621.2	656.1	690.2	663.9	641.9
72.5°	488.1	521.4	527.0	489.0	461.1
75°	369.2	393.9	381.1	327.3	298.8
77.5°	257.5	271.8	244.8	190.2	167.3
80°	161.7	168.0	131.5	92.6	77.6
82.5°	87.2	87.9	57.1	46.8	43.6
85°	38.9	34.9	26.1	22.9	20.7
87.5°	13.5	11.9	9.5	8.8	7.2
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	16.24	17.82	16.60	18.13	18.45	17.22	18.80	17.59	19.12	19.43
	3H	17.65	19.07	18.02	19.40	19.76	18.42	19.85	18.80	20.17	20.53
	4H	18.04	19.37	18.44	19.72	20.10	18.64	19.97	19.04	20.32	20.70
	6H	18.22	19.45	18.63	19.81	20.20	18.66	19.89	19.07	20.26	20.65
	8H	18.23	19.40	18.66	19.79	20.19	18.63	19.81	19.06	20.20	20.60
	12H	18.22	19.34	18.65	19.73	20.16	18.61	19.73	19.04	20.12	20.54
4H	2H	16.91	18.24	17.31	18.59	18.97	17.70	19.03	18.10	19.38	19.76
	3H	18.48	19.58	18.89	19.98	20.38	19.07	20.17	19.48	20.57	20.97
	4H	18.95	19.95	19.38	20.36	20.80	19.34	20.33	19.77	20.75	21.19
	6H	19.19	20.05	19.65	20.50	20.95	19.39	20.25	19.85	20.69	21.15
	8H	19.22	20.02	19.68	20.46	20.93	19.37	20.17	19.83	20.61	21.08
	12H	19.22	19.93	19.70	20.41	20.88	19.35	20.07	19.83	20.54	21.01
8H	4H	19.10	19.90	19.56	20.35	20.81	19.46	20.26	19.92	20.71	21.17
	6H	19.37	20.03	19.87	20.53	21.00	19.52	20.18	20.01	20.67	21.15
	8H	19.41	20.00	19.93	20.51	21.00	19.50	20.09	20.01	20.60	21.08
	12H	19.43	19.95	19.94	20.44	21.00	19.48	20.00	19.99	20.49	21.06
12H	4H	19.08	19.80	19.56	20.28	20.75	19.45	20.17	19.93	20.64	21.11
	6H	19.34	19.94	19.86	20.45	20.93	19.49	20.09	20.01	20.60	21.08
	8H	19.41	19.93	19.92	20.42	20.99	19.50	20.02	20.00	20.51	21.07