

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: P1499562

Luminaire Tested: MAE-G-4-120-3LO-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499562
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-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

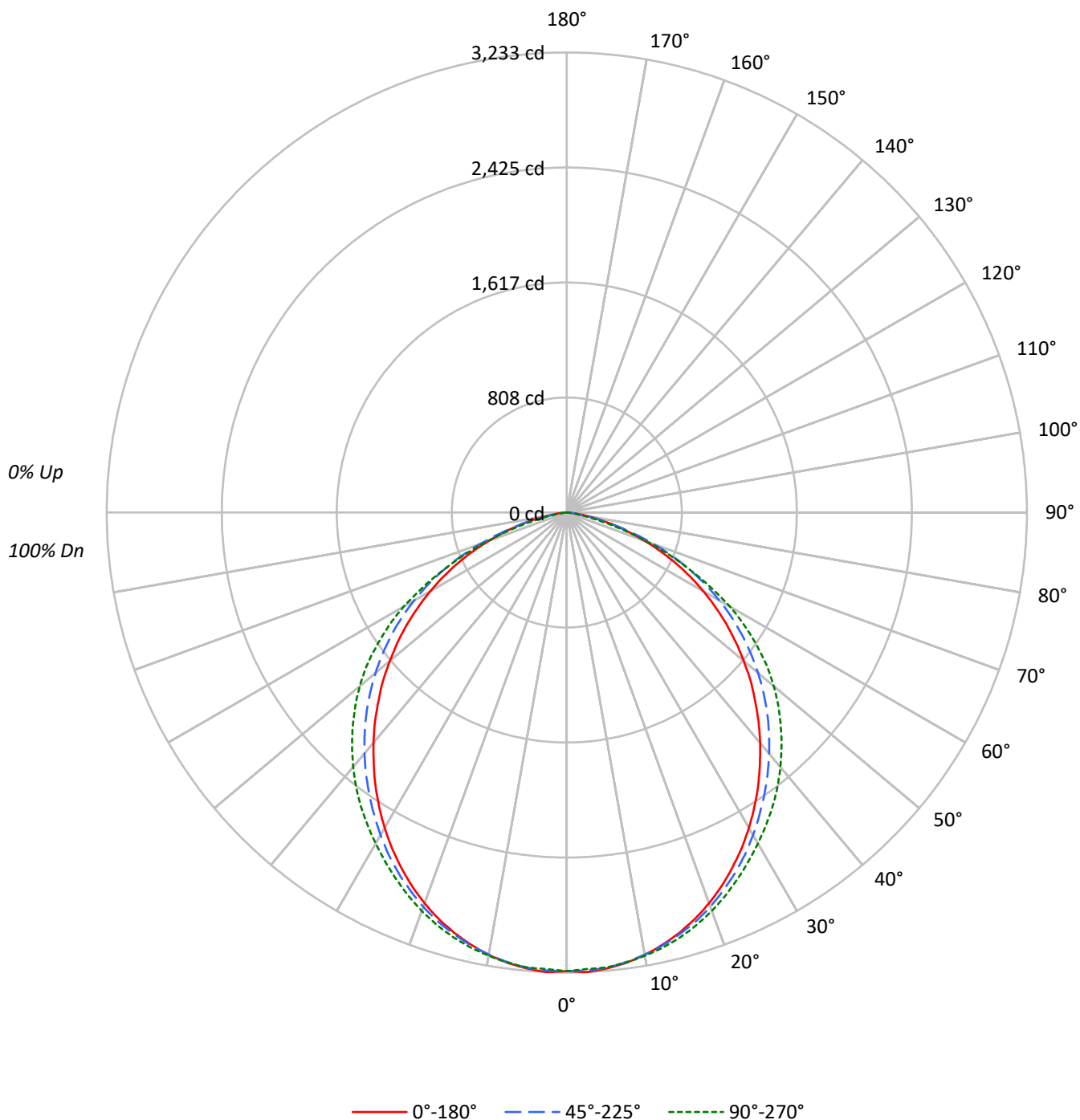
Lumens per Lamp: N/A
Luminaire Lumens: 8168.0 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	65	59	55	53		
5	78	65	56	50	76	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	43	41		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32		
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4336	4336	4336
5°	4346	4336	4334
10°	4314	4311	4322
15°	4259	4272	4303
20°	4184	4223	4267
25°	4087	4153	4218
30°	3977	4067	4173
35°	3852	3974	4141
40°	3712	3884	4100
45°	3560	3788	4048
50°	3395	3671	3976
55°	3213	3529	3823
60°	2982	3334	3567
65°	2692	3041	3055
70°	2298	2554	2375
75°	1805	1863	1461
80°	1178	958	566
85°	565	378	299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4048 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.4	3.7
10°-20°	864.2	10.6
20°-30°	1285.4	15.7
30°-40°	1514.7	18.5
40°-50°	1535.7	18.8
50°-60°	1338.2	16.4
60°-70°	915.2	11.2
70°-80°	367.6	4.5
80°-90°	42.6	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°	2454.0	30.0
0°-40°	3968.7	48.6
0°-60°	6842.6	83.8
0°-90°	8168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8168.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3223	3223	3223	3223	3223	
5°	3217	3198	3211	3207	3209	305
15°	3057	3044	3067	3080	3089	861
25°	2753	2754	2797	2817	2841	1268
35°	2345	2355	2420	2479	2521	1465
45°	1871	1896	1991	2080	2127	1444
55°	1370	1399	1504	1599	1630	1223
65°	846	884	955	963	960	836
75°	347	370	358	308	281	373
85°	37	33	24	22	19	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3222.7	3222.7	3222.7	3222.7	3222.7
2.5°	3233.1	3211.5	3222.7	3220.4	3212.2
5°	3217.4	3198.0	3210.7	3207.1	3209.2
7.5°	3192.1	3174.3	3187.6	3187.0	3190.6
10°	3157.2	3139.2	3155.7	3158.6	3163.1
12.5°	3110.9	3096.1	3116.2	3122.1	3131.0
15°	3057.2	3043.9	3066.9	3079.6	3089.3
17.5°	2994.6	2983.4	3013.2	3025.2	3038.6
20°	2922.3	2914.2	2949.2	2960.4	2979.8
22.5°	2841.9	2837.5	2873.9	2891.0	2913.4
25°	2753.2	2754.0	2797.1	2817.4	2841.1
27.5°	2660.1	2661.6	2710.8	2739.0	2764.4
30°	2559.5	2563.9	2617.6	2652.7	2686.1
32.5°	2452.9	2461.8	2520.0	2567.7	2604.9
35°	2344.9	2355.3	2419.5	2479.0	2521.4
37.5°	2228.0	2245.1	2317.4	2388.2	2432.0
40°	2113.2	2130.3	2211.5	2289.7	2334.5
42.5°	1994.8	2016.3	2102.8	2189.9	2233.1
45°	1871.1	1896.3	1991.0	2080.4	2127.3
47.5°	1752.5	1774.9	1874.7	1967.9	2016.3
50°	1622.1	1650.4	1754.0	1851.6	1899.4
52.5°	1497.7	1523.7	1630.3	1730.3	1773.4
55°	1369.6	1398.6	1504.5	1599.0	1629.6
57.5°	1238.3	1273.4	1375.5	1454.6	1483.6
60°	1108.1	1143.0	1239.1	1304.0	1325.6
62.5°	978.3	1015.7	1099.8	1143.0	1143.0
65°	845.7	883.7	955.2	962.6	959.7
67.5°	713.1	751.2	805.5	792.0	783.1
70°	584.2	616.9	649.1	624.4	603.6
72.5°	459.0	490.3	495.6	459.8	433.6
75°	347.2	370.4	358.4	307.8	281.0
77.5°	242.1	255.6	230.2	178.9	157.3
80°	152.0	157.9	123.7	87.1	73.0
82.5°	82.0	82.7	53.7	44.0	41.0
85°	36.6	32.8	24.5	21.6	19.4
87.5°	12.7	11.2	8.9	8.2	6.8
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	16.02	17.61	16.39	17.92	18.23	17.01	18.59	17.37	18.90	19.22
	3H	17.43	18.85	17.81	19.18	19.54	18.21	19.63	18.59	19.96	20.32
	4H	17.83	19.16	18.23	19.51	19.89	18.43	19.76	18.83	20.11	20.49
	6H	18.00	19.23	18.41	19.60	19.99	18.44	19.68	18.86	20.04	20.43
	8H	18.02	19.19	18.44	19.58	19.98	18.42	19.60	18.85	19.98	20.38
	12H	18.01	19.13	18.44	19.51	19.94	18.40	19.52	18.83	19.90	20.33
4H	2H	16.69	18.03	17.09	18.38	18.75	17.48	18.82	17.88	19.17	19.54
	3H	18.26	19.37	18.67	19.77	20.17	18.85	19.96	19.26	20.36	20.76
	4H	18.74	19.73	19.17	20.15	20.58	19.13	20.12	19.56	20.53	20.97
	6H	18.98	19.84	19.43	20.28	20.74	19.18	20.04	19.63	20.48	20.94
	8H	19.00	19.81	19.46	20.25	20.72	19.15	19.96	19.62	20.40	20.87
	12H	19.00	19.72	19.48	20.20	20.67	19.13	19.85	19.61	20.33	20.80
8H	4H	18.88	19.69	19.35	20.13	20.60	19.24	20.05	19.71	20.49	20.96
	6H	19.16	19.82	19.65	20.31	20.79	19.30	19.97	19.80	20.46	20.93
	8H	19.20	19.79	19.71	20.30	20.79	19.28	19.87	19.80	20.38	20.87
	12H	19.21	19.74	19.72	20.23	20.79	19.27	19.79	19.78	20.28	20.84
12H	4H	18.87	19.58	19.35	20.06	20.53	19.23	19.95	19.72	20.43	20.90
	6H	19.13	19.72	19.64	20.23	20.72	19.28	19.87	19.79	20.38	20.87
	8H	19.20	19.72	19.70	20.21	20.77	19.28	19.80	19.79	20.30	20.86