

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: P1499628

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499628
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-LO-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

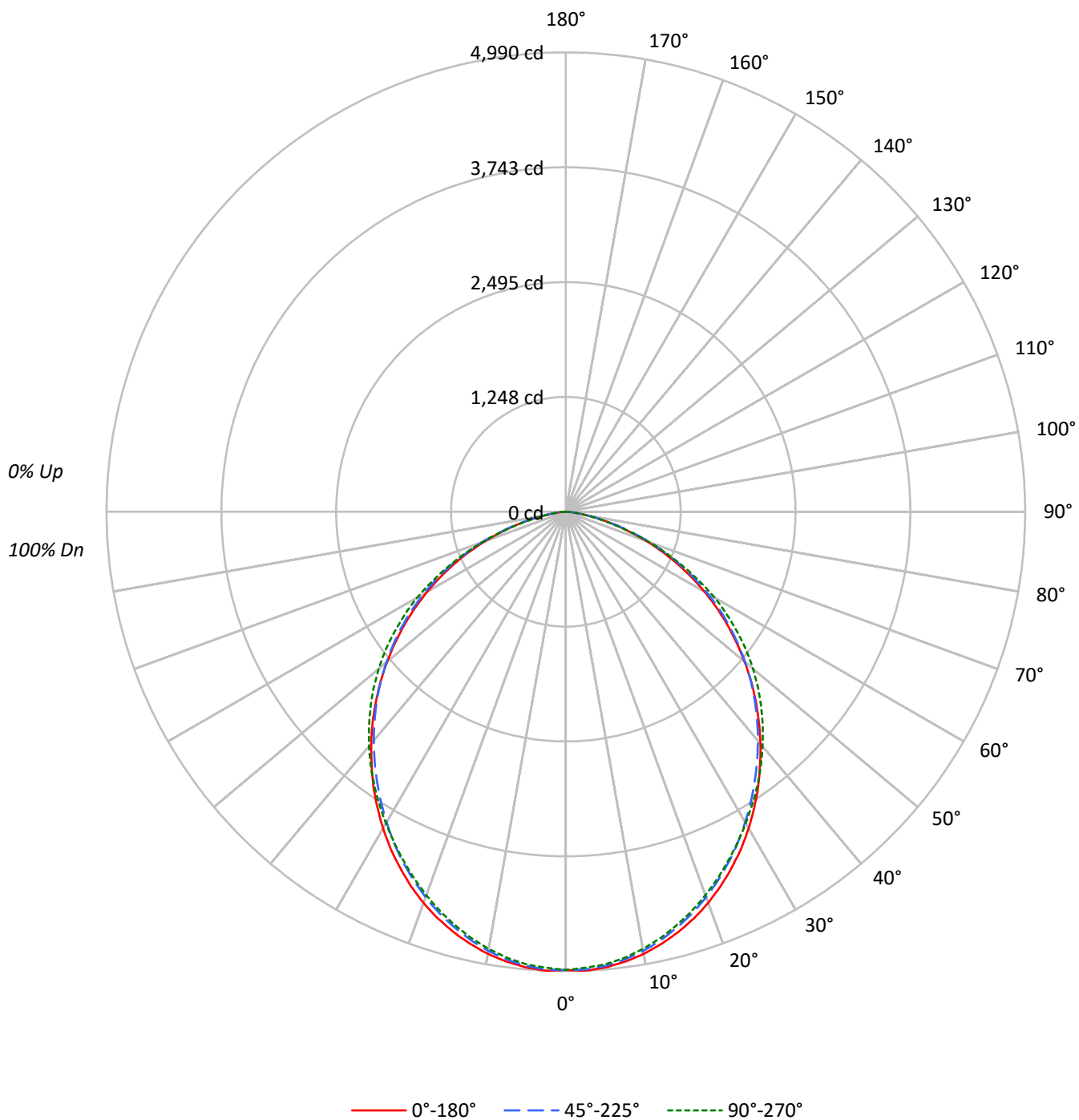
Lumens per Lamp: N/A
Luminaire Lumens: 12252.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 120.2
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	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86		
2	100	92	86	81	98	91	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	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	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	43	40		
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	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6697	6697	6697
5°	6709	6687	6665
10°	6662	6618	6586
15°	6581	6511	6477
20°	6473	6380	6347
25°	6332	6226	6204
30°	6169	6052	6071
35°	5985	5874	5959
40°	5777	5701	5841
45°	5551	5524	5709
50°	5304	5324	5554
55°	5026	5092	5326
60°	4681	4794	5020
65°	4252	4391	4487
70°	3662	3813	3781
75°	2909	3025	2820
80°	1958	1977	1829
85°	1005	1233	1497

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5709 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.6	3.8
10°-20°	1316.9	10.7
20°-30°	1934.3	15.8
30°-40°	2252.3	18.4
40°-50°	2257.6	18.4
50°-60°	1951.2	15.9
60°-70°	1357.4	11.1
70°-80°	608.6	5.0
80°-90°	105.0	0.9
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°	3719.8	30.4
0°-40°	5972.2	48.7
0°-60°	10181.0	83.1
0°-90°	12252.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12252.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4977	4977	4977	4977	4977	
5°	4967	4946	4951	4929	4935	471
15°	4725	4695	4674	4642	4650	1331
25°	4265	4227	4194	4162	4179	1964
35°	3644	3599	3576	3593	3628	2277
45°	2917	2885	2903	2962	3000	2251
55°	2143	2120	2171	2244	2270	1913
65°	1336	1332	1379	1405	1410	1320
75°	560	565	582	559	542	601
85°	65	70	80	92	97	96
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4977.1	4977.1	4977.1	4977.1	4977.1
2.5°	4989.6	4968.9	4977.1	4959.4	4955.8
5°	4967.2	4945.9	4951.3	4928.6	4935.1
7.5°	4928.6	4906.0	4905.8	4881.0	4887.0
10°	4876.3	4849.8	4844.1	4816.0	4820.7
12.5°	4806.7	4779.3	4767.1	4735.0	4742.9
15°	4724.8	4694.7	4674.0	4642.5	4649.8
17.5°	4629.9	4596.8	4571.9	4535.3	4547.2
20°	4521.0	4485.5	4455.8	4416.8	4432.5
22.5°	4399.2	4361.7	4327.7	4292.9	4308.7
25°	4264.9	4227.2	4193.8	4162.2	4178.8
27.5°	4123.7	4081.7	4048.3	4025.8	4044.1
30°	3970.9	3927.5	3895.3	3881.6	3907.7
32.5°	3809.5	3766.8	3738.4	3739.7	3769.8
35°	3643.8	3598.8	3576.3	3593.0	3628.0
37.5°	3465.7	3428.0	3413.1	3444.9	3480.6
40°	3289.1	3249.8	3246.0	3287.7	3325.3
42.5°	3106.5	3071.9	3076.6	3130.0	3165.0
45°	2917.4	2885.4	2903.1	2961.9	3000.1
47.5°	2731.7	2698.8	2726.5	2790.7	2832.0
50°	2534.1	2507.6	2543.5	2615.4	2653.2
52.5°	2338.0	2312.5	2358.3	2434.1	2470.5
55°	2142.7	2119.8	2170.7	2244.2	2270.4
57.5°	1940.7	1927.9	1980.3	2044.8	2072.0
60°	1739.6	1728.7	1781.6	1841.1	1865.6
62.5°	1538.3	1532.3	1582.6	1630.6	1638.6
65°	1335.6	1332.4	1379.3	1404.7	1409.5
67.5°	1130.6	1133.2	1175.7	1188.3	1187.6
70°	930.9	930.9	969.3	972.1	961.0
72.5°	736.7	742.4	766.9	760.2	742.5
75°	559.6	564.7	581.8	559.2	542.4
77.5°	394.9	399.1	406.1	381.4	370.9
80°	252.7	260.4	255.1	243.2	236.0
82.5°	141.0	149.0	144.4	155.1	159.9
85°	65.1	69.8	79.9	92.0	97.0
87.5°	22.2	26.4	32.8	35.0	32.6
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	17.54	19.12	17.90	19.44	19.75	17.96	19.54	18.32	19.86	20.17
	3H	18.98	20.41	19.36	20.74	21.10	19.36	20.79	19.74	21.12	21.48
	4H	19.40	20.74	19.80	21.09	21.47	19.73	21.06	20.13	21.41	21.79
	6H	19.60	20.84	20.01	21.20	21.60	19.88	21.11	20.29	21.48	21.87
	8H	19.63	20.81	20.05	21.20	21.60	19.90	21.08	20.33	21.47	21.87
	12H	19.63	20.75	20.05	21.13	21.56	19.91	21.04	20.34	21.42	21.85
4H	2H	18.13	19.46	18.53	19.81	20.19	18.47	19.80	18.86	20.15	20.53
	3H	19.75	20.86	20.16	21.26	21.66	20.06	21.17	20.47	21.57	21.97
	4H	20.25	21.25	20.68	21.66	22.10	20.50	21.50	20.94	21.92	22.36
	6H	20.52	21.39	20.98	21.84	22.29	20.72	21.59	21.18	22.03	22.49
	8H	20.56	21.38	21.03	21.82	22.28	20.76	21.57	21.23	22.02	22.48
	12H	20.57	21.30	21.05	21.78	22.25	20.79	21.52	21.27	22.00	22.47
8H	4H	20.43	21.24	20.89	21.69	22.15	20.66	21.48	21.13	21.92	22.39
	6H	20.76	21.43	21.25	21.92	22.39	20.93	21.60	21.42	22.09	22.56
	8H	20.82	21.42	21.33	21.93	22.42	20.99	21.59	21.51	22.10	22.59
	12H	20.85	21.38	21.36	21.87	22.44	21.05	21.58	21.56	22.07	22.64
12H	4H	20.43	21.15	20.91	21.63	22.10	20.66	21.39	21.14	21.86	22.33
	6H	20.75	21.35	21.26	21.86	22.35	20.92	21.52	21.43	22.03	22.52
	8H	20.85	21.37	21.35	21.87	22.43	21.02	21.55	21.53	22.04	22.60