

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: P1499319

Luminaire Tested: MAE-G-4-120-2LO-HI-50

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2LO-HI-50
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

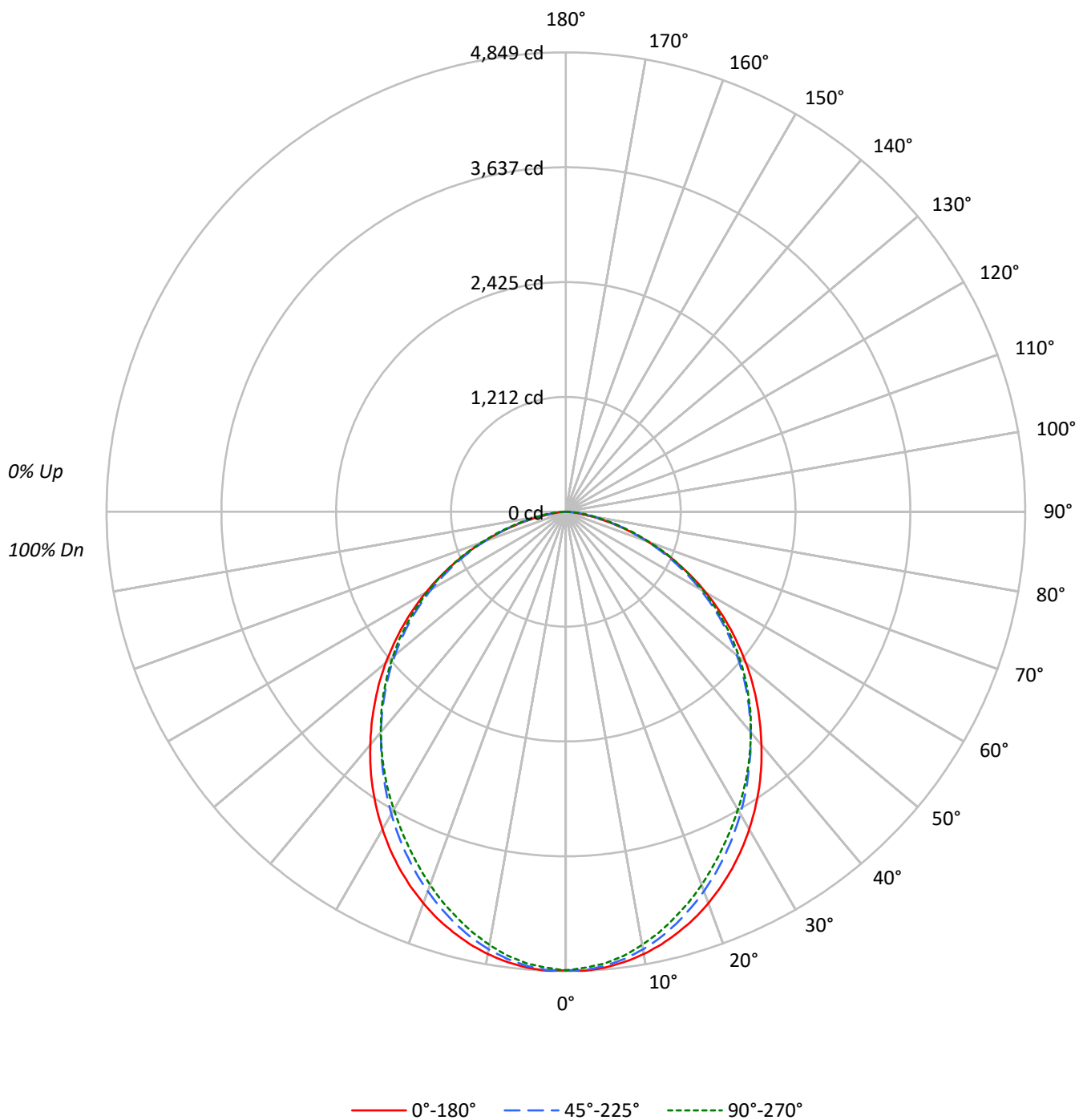
Lumens per Lamp: N/A
Luminaire Lumens: 11648.0 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 136.9
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

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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	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	74	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	63	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6512	6512	6512
5°	6521	6497	6461
10°	6477	6408	6342
15°	6399	6270	6179
20°	6298	6102	6001
25°	6168	5919	5812
30°	6015	5722	5640
35°	5841	5522	5489
40°	5643	5331	5338
45°	5428	5139	5182
50°	5194	4934	4995
55°	4923	4697	4782
60°	4598	4409	4533
65°	4191	4043	4190
70°	3631	3587	3729
75°	2906	3005	3121
80°	1990	2237	2416
85°	1050	1618	2141

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5428 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.6	3.9
10°-20°	1268.1	10.9
20°-30°	1844.9	15.8
30°-40°	2129.1	18.3
40°-50°	2115.1	18.2
50°-60°	1815.7	15.6
60°-70°	1277.1	11.0
70°-80°	615.8	5.3
80°-90°	127.6	1.1
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°	3567.6	30.6
0°-40°	5696.7	48.9
0°-60°	9627.6	82.7
0°-90°	11648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11648.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4840	4840	4840	4840	4840	
5°	4828	4814	4810	4776	4784	458
15°	4594	4558	4501	4435	4436	1295
25°	4154	4092	3987	3916	3915	1912
35°	3556	3472	3362	3330	3342	2223
45°	2853	2772	2701	2707	2723	2200
55°	2099	2031	2002	2025	2038	1874
65°	1316	1273	1270	1300	1316	1302
75°	559	542	578	594	600	601
85°	68	80	105	128	139	99
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4840.0	4840.0	4840.0	4840.0	4840.0
2.5°	4848.8	4837.7	4840.0	4813.4	4815.7
5°	4828.3	4813.9	4810.2	4776.0	4783.8
7.5°	4791.4	4772.9	4759.2	4718.8	4724.9
10°	4740.6	4716.0	4690.4	4639.7	4642.1
12.5°	4675.1	4645.2	4604.8	4544.8	4547.9
15°	4593.9	4558.5	4501.4	4435.4	4435.7
17.5°	4504.0	4462.9	4387.0	4315.9	4320.8
20°	4398.4	4351.0	4261.5	4187.8	4191.3
22.5°	4280.8	4225.6	4130.3	4055.6	4054.1
25°	4154.5	4092.1	3986.8	3915.9	3914.8
27.5°	4018.1	3948.2	3837.7	3771.1	3773.2
30°	3871.3	3796.3	3683.0	3625.8	3630.5
32.5°	3716.8	3638.1	3525.8	3481.2	3491.2
35°	3556.2	3472.1	3361.9	3330.4	3341.8
37.5°	3388.5	3305.2	3199.6	3181.1	3192.7
40°	3212.6	3131.1	3035.4	3025.6	3039.3
42.5°	3034.3	2954.6	2869.9	2869.3	2884.0
45°	2852.7	2772.5	2700.8	2707.4	2723.1
47.5°	2670.6	2591.4	2532.0	2544.0	2558.3
50°	2481.4	2406.8	2357.3	2374.2	2386.2
52.5°	2287.5	2218.0	2181.2	2201.8	2220.6
55°	2098.7	2031.3	2002.3	2025.0	2038.5
57.5°	1903.3	1845.1	1823.1	1846.2	1861.3
60°	1708.8	1653.9	1638.3	1666.3	1684.4
62.5°	1512.0	1461.7	1455.0	1484.9	1501.2
65°	1316.5	1272.7	1270.0	1299.7	1316.0
67.5°	1121.8	1082.8	1090.5	1125.5	1135.2
70°	923.1	891.4	911.8	941.0	948.0
72.5°	737.9	711.1	739.9	764.1	767.6
75°	559.0	541.6	578.1	594.4	600.4
77.5°	396.3	392.1	423.0	439.4	446.7
80°	256.8	264.7	288.7	308.1	311.8
82.5°	146.1	157.1	180.0	208.2	219.2
85°	68.0	79.9	104.8	128.3	138.7
87.5°	22.9	31.5	44.5	48.5	46.3
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	17.44	19.02	17.81	19.34	19.65	17.42	19.00	17.78	19.32	19.63
	3H	18.92	20.34	19.30	20.67	21.03	18.99	20.41	19.36	20.74	21.10
	4H	19.35	20.69	19.75	21.04	21.42	19.48	20.82	19.88	21.17	21.54
	6H	19.57	20.81	19.98	21.18	21.57	19.77	21.01	20.18	21.37	21.76
	8H	19.60	20.78	20.03	21.17	21.57	19.85	21.03	20.27	21.42	21.82
	12H	19.60	20.74	20.03	21.12	21.55	19.90	21.03	20.33	21.42	21.84
4H	2H	17.97	19.31	18.37	19.66	20.03	17.95	19.29	18.35	19.64	20.01
	3H	19.63	20.74	20.04	21.14	21.54	19.71	20.83	20.12	21.23	21.63
	4H	20.15	21.16	20.58	21.57	22.01	20.31	21.31	20.74	21.73	22.17
	6H	20.45	21.32	20.91	21.77	22.22	20.70	21.57	21.15	22.01	22.47
	8H	20.50	21.32	20.96	21.76	22.23	20.81	21.62	21.27	22.07	22.53
	12H	20.52	21.25	21.00	21.73	22.20	20.89	21.62	21.37	22.10	22.57
8H	4H	20.36	21.17	20.82	21.62	22.08	20.50	21.32	20.96	21.76	22.23
	6H	20.72	21.39	21.21	21.88	22.36	20.96	21.64	21.46	22.13	22.60
	8H	20.80	21.40	21.31	21.91	22.40	21.12	21.72	21.63	22.23	22.72
	12H	20.84	21.38	21.35	21.87	22.43	21.26	21.79	21.77	22.28	22.85
12H	4H	20.36	21.09	20.84	21.57	22.04	20.50	21.23	20.98	21.71	22.18
	6H	20.73	21.34	21.24	21.85	22.33	20.97	21.57	21.48	22.08	22.57
	8H	20.85	21.38	21.36	21.88	22.44	21.17	21.70	21.67	22.19	22.75