

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: P1499334

Luminaire Tested: MAE-G-4-120-2LO-LO-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499334
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-LO-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

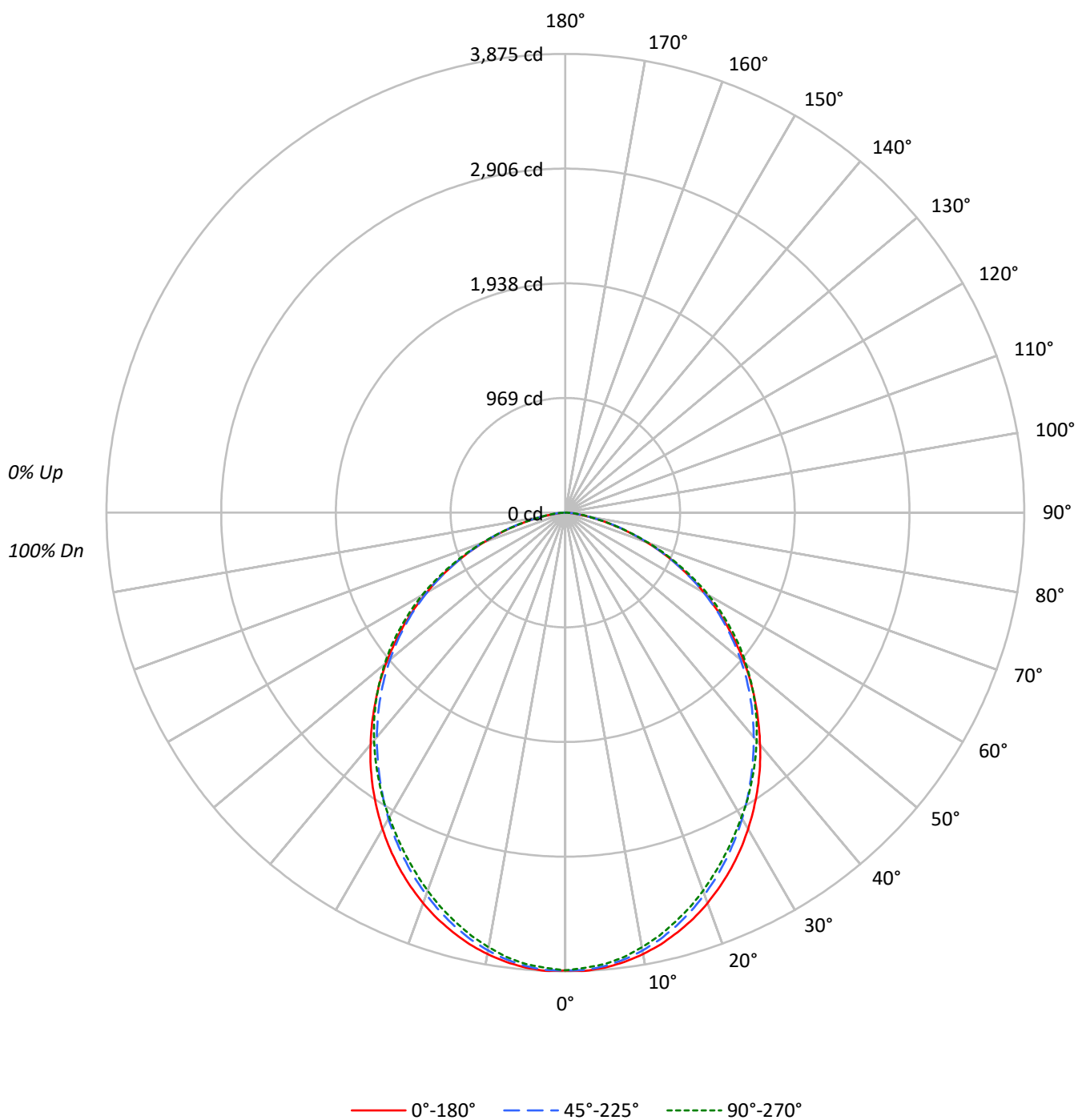
Lumens per Lamp: N/A
Luminaire Lumens: 9412.0 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 96.2
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	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	88	88	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	61
4	84	73	64	58	82	71	63	57	69	62	57	67	61	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	54	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°	5203	5203	5203
5°	5210	5193	5170
10°	5174	5132	5093
15°	5110	5036	4987
20°	5027	4917	4867
25°	4921	4784	4736
30°	4796	4639	4618
35°	4655	4489	4516
40°	4493	4348	4413
45°	4319	4203	4305
50°	4130	4046	4168
55°	3912	3860	3996
60°	3649	3628	3767
65°	3318	3319	3414
70°	2865	2899	2939
75°	2283	2349	2321
80°	1547	1631	1636
85°	794	1090	1391

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4319 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.6	3.9
10°-20°	1018.4	10.8
20°-30°	1489.1	15.8
30°-40°	1727.0	18.3
40°-50°	1724.0	18.3
50°-60°	1485.1	15.8
60°-70°	1036.3	11.0
70°-80°	478.7	5.1
80°-90°	89.7	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°	2871.1	30.5
0°-40°	4598.1	48.9
0°-60°	7807.2	82.9
0°-90°	9412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9412.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3867	3867	3867	3867	3867	
5°	3858	3844	3845	3823	3828	366
15°	3669	3643	3615	3578	3580	1034
25°	3315	3277	3222	3185	3190	1526
35°	2834	2785	2733	2732	2750	1771
45°	2270	2227	2209	2239	2262	1751
55°	1668	1634	1645	1686	1703	1489
65°	1042	1026	1043	1061	1072	1031
75°	439	434	452	448	446	473
85°	51	58	71	84	90	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3866.8	3866.8	3866.8	3866.8	3866.8
2.5°	3874.6	3862.0	3866.8	3849.8	3848.8
5°	3857.7	3843.8	3845.2	3823.0	3828.1
7.5°	3828.1	3811.8	3807.5	3782.4	3787.1
10°	3786.9	3767.0	3756.2	3725.4	3727.8
12.5°	3734.2	3711.6	3692.7	3657.2	3661.3
15°	3668.6	3643.2	3615.0	3577.6	3579.9
17.5°	3596.2	3568.7	3529.0	3489.4	3495.8
20°	3510.8	3480.5	3433.7	3392.5	3399.2
22.5°	3416.1	3381.7	3332.8	3292.0	3295.7
25°	3314.9	3276.9	3222.3	3185.3	3189.9
27.5°	3205.0	3162.7	3107.1	3074.0	3081.6
30°	3086.8	3042.5	2986.2	2961.7	2972.5
32.5°	2962.5	2917.1	2862.4	2849.5	2865.8
35°	2833.8	2785.4	2733.2	2731.7	2749.7
37.5°	2699.9	2652.2	2605.3	2614.9	2633.6
40°	2558.1	2513.4	2475.3	2492.4	2512.6
42.5°	2415.5	2372.5	2343.7	2368.4	2390.3
45°	2269.9	2227.3	2208.8	2238.9	2262.3
47.5°	2125.4	2082.3	2073.2	2108.0	2128.9
50°	1973.0	1934.7	1932.9	1970.5	1991.0
52.5°	1819.3	1783.8	1790.4	1830.9	1855.9
55°	1667.5	1634.5	1645.3	1685.5	1703.3
57.5°	1511.5	1485.2	1499.3	1535.2	1552.8
60°	1356.1	1332.0	1348.1	1382.4	1399.7
62.5°	1199.0	1178.0	1196.7	1225.4	1236.6
65°	1042.2	1026.5	1042.6	1061.1	1072.3
67.5°	887.8	873.1	890.6	908.5	912.5
70°	728.4	719.1	736.8	747.3	747.2
72.5°	581.6	572.5	589.2	593.2	590.2
75°	439.2	434.4	451.8	448.0	446.4
77.5°	309.8	312.1	321.3	318.4	317.7
80°	199.6	206.5	210.5	212.6	211.2
82.5°	112.1	118.6	124.7	139.4	145.2
85°	51.4	57.8	70.6	84.4	90.1
87.5°	17.4	22.3	29.6	31.8	30.2
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	16.66	18.24	17.02	18.55	18.87	16.88	18.46	17.25	18.78	19.09
	3H	18.12	19.55	18.50	19.87	20.23	18.35	19.77	18.72	20.10	20.46
	4H	18.55	19.88	18.95	20.23	20.61	18.76	20.10	19.16	20.45	20.83
	6H	18.75	19.99	19.17	20.36	20.75	18.97	20.21	19.38	20.57	20.96
	8H	18.78	19.96	19.21	20.35	20.75	19.02	20.19	19.44	20.58	20.98
	12H	18.78	19.91	19.21	20.29	20.72	19.04	20.17	19.47	20.55	20.98
4H	2H	17.22	18.55	17.61	18.90	19.28	17.40	18.73	17.80	19.08	19.46
	3H	18.86	19.97	19.27	20.37	20.77	19.05	20.16	19.46	20.56	20.96
	4H	19.37	20.37	19.80	20.78	21.22	19.56	20.56	19.99	20.97	21.41
	6H	19.65	20.52	20.11	20.97	21.42	19.84	20.71	20.30	21.16	21.61
	8H	19.70	20.51	20.16	20.95	21.42	19.91	20.73	20.37	21.17	21.63
	12H	19.71	20.44	20.19	20.91	21.38	19.96	20.69	20.44	21.17	21.64
8H	4H	19.56	20.37	20.02	20.81	21.28	19.73	20.54	20.19	20.98	21.45
	6H	19.90	20.57	20.39	21.06	21.53	20.07	20.74	20.57	21.23	21.71
	8H	19.97	20.57	20.48	21.08	21.56	20.18	20.78	20.69	21.29	21.77
	12H	20.00	20.53	20.51	21.02	21.59	20.27	20.80	20.78	21.29	21.85
12H	4H	19.56	20.28	20.04	20.76	21.23	19.73	20.45	20.21	20.93	21.40
	6H	19.90	20.50	20.41	21.01	21.50	20.07	20.67	20.58	21.18	21.67
	8H	20.00	20.53	20.51	21.02	21.59	20.21	20.74	20.72	21.23	21.79