

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: P1499325

Luminaire Tested: MAE-G-4-120-2LO-LO-30

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499325
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-30
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

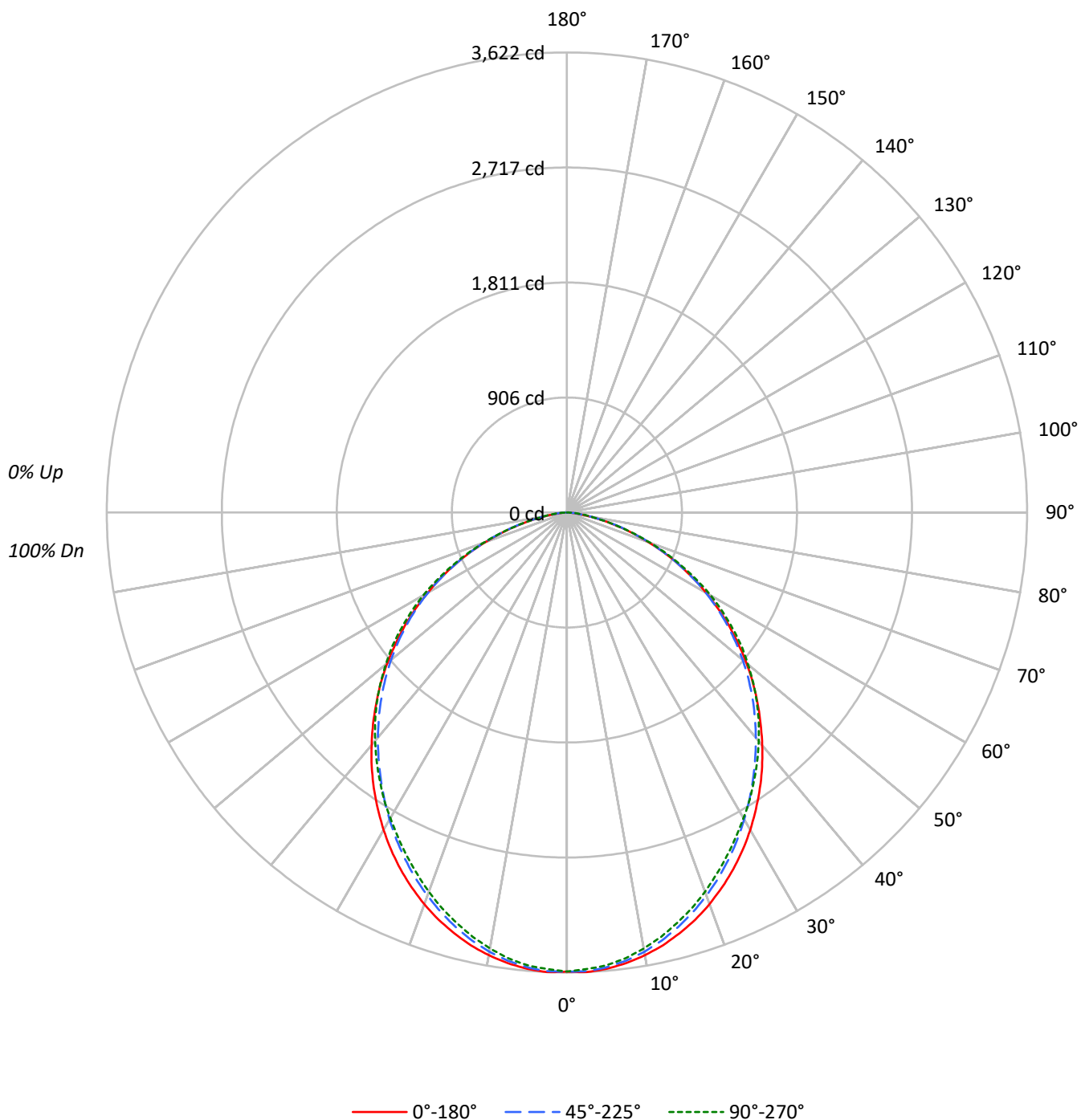
Lumens per Lamp: N/A
Luminaire Lumens: 8798.0 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	4863	4863	4863
5°	4871	4855	4833
10°	4836	4797	4761
15°	4777	4707	4661
20°	4699	4596	4550
25°	4600	4472	4427
30°	4483	4337	4317
35°	4351	4197	4222
40°	4200	4064	4125
45°	4038	3929	4024
50°	3861	3782	3896
55°	3656	3608	3735
60°	3411	3391	3521
65°	3102	3103	3191
70°	2679	2709	2748
75°	2134	2195	2170
80°	1445	1525	1530
85°	743	1019	1301

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4038 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.9	3.9
10°-20°	952.0	10.8
20°-30°	1391.9	15.8
30°-40°	1614.4	18.3
40°-50°	1611.6	18.3
50°-60°	1388.2	15.8
60°-70°	968.7	11.0
70°-80°	447.5	5.1
80°-90°	83.9	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°	2683.8	30.5
0°-40°	4298.2	48.9
0°-60°	7297.9	82.9
0°-90°	8798.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8798.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3614	3614	3614	3614	3614	
5°	3606	3593	3594	3574	3578	342
15°	3429	3406	3379	3344	3346	967
25°	3098	3063	3012	2978	2982	1426
35°	2649	2604	2555	2554	2570	1656
45°	2122	2082	2065	2093	2115	1637
55°	1559	1528	1538	1576	1592	1392
65°	974	960	975	992	1002	964
75°	410	406	422	419	417	442
85°	48	54	66	79	84	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3614.4	3614.4	3614.4	3614.4	3614.4
2.5°	3621.8	3610.0	3614.4	3598.7	3597.6
5°	3606.1	3593.0	3594.3	3573.6	3578.3
7.5°	3578.3	3563.2	3559.1	3535.7	3540.1
10°	3539.8	3521.2	3511.1	3482.4	3484.6
12.5°	3490.5	3469.5	3451.8	3418.6	3422.4
15°	3429.2	3405.5	3379.1	3344.3	3346.4
17.5°	3361.7	3335.9	3298.8	3261.7	3267.7
20°	3281.7	3253.4	3209.7	3171.2	3177.5
22.5°	3193.2	3161.0	3115.5	3077.2	3080.7
25°	3098.5	3063.2	3012.1	2977.5	2981.8
27.5°	2995.9	2956.4	2904.4	2873.4	2880.7
30°	2885.5	2844.0	2791.5	2768.5	2778.7
32.5°	2769.3	2726.8	2675.7	2663.6	2678.9
35°	2648.9	2603.7	2554.9	2553.5	2570.4
37.5°	2523.7	2479.2	2435.4	2444.3	2461.8
40°	2391.2	2349.4	2313.8	2329.8	2348.7
42.5°	2258.0	2217.8	2190.7	2214.0	2234.4
45°	2121.9	2082.0	2064.7	2093.0	2114.7
47.5°	1986.7	1946.5	1937.9	1970.5	1990.1
50°	1844.3	1808.5	1806.8	1842.0	1861.2
52.5°	1700.6	1667.5	1673.6	1711.4	1734.9
55°	1558.7	1527.8	1538.0	1575.6	1592.2
57.5°	1412.8	1388.4	1401.5	1435.0	1451.5
60°	1267.6	1245.1	1260.2	1292.3	1308.4
62.5°	1120.8	1101.3	1118.6	1145.5	1155.9
65°	974.2	959.5	974.6	991.8	1002.4
67.5°	829.9	816.1	832.6	849.2	852.9
70°	680.9	672.2	688.7	698.6	698.5
72.5°	543.6	535.1	550.8	554.5	551.8
75°	410.5	406.0	422.3	418.7	417.4
77.5°	289.6	291.8	300.3	297.7	297.0
80°	186.5	193.1	196.8	198.7	197.4
82.5°	104.8	110.8	116.5	130.3	135.8
85°	48.1	54.0	66.0	78.9	84.3
87.5°	16.3	20.9	27.7	29.8	28.3
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	16.42	18.01	16.79	18.32	18.63	16.65	18.23	17.01	18.54	18.86
	3H	17.89	19.31	18.26	19.64	20.00	18.11	19.54	18.49	19.86	20.22
	4H	18.31	19.65	18.71	20.00	20.37	18.53	19.87	18.93	20.21	20.59
	6H	18.52	19.76	18.93	20.12	20.51	18.74	19.97	19.15	20.34	20.73
	8H	18.55	19.73	18.97	20.11	20.51	18.78	19.96	19.21	20.35	20.75
	12H	18.55	19.67	18.97	20.06	20.48	18.81	19.94	19.24	20.32	20.75
4H	2H	16.98	18.32	17.38	18.67	19.04	17.16	18.50	17.56	18.85	19.23
	3H	18.62	19.73	19.03	20.13	20.53	18.82	19.93	19.23	20.33	20.73
	4H	19.13	20.13	19.56	20.55	20.99	19.32	20.32	19.75	20.74	21.18
	6H	19.42	20.29	19.87	20.73	21.19	19.61	20.48	20.07	20.92	21.38
	8H	19.46	20.27	19.92	20.72	21.18	19.68	20.49	20.14	20.93	21.40
	12H	19.47	20.20	19.96	20.68	21.15	19.73	20.46	20.21	20.93	21.40
8H	4H	19.32	20.13	19.78	20.58	21.04	19.49	20.31	19.96	20.75	21.22
	6H	19.66	20.33	20.16	20.82	21.30	19.84	20.51	20.33	21.00	21.48
	8H	19.73	20.33	20.24	20.84	21.33	19.94	20.54	20.45	21.05	21.54
	12H	19.77	20.30	20.28	20.79	21.35	20.03	20.56	20.54	21.05	21.62
12H	4H	19.32	20.05	19.80	20.53	21.00	19.49	20.22	19.97	20.70	21.17
	6H	19.66	20.27	20.17	20.77	21.26	19.84	20.44	20.35	20.95	21.43
	8H	19.77	20.30	20.28	20.79	21.35	19.97	20.51	20.48	21.00	21.56