

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: P1499730

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499730
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-4-120-3STD-STD-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

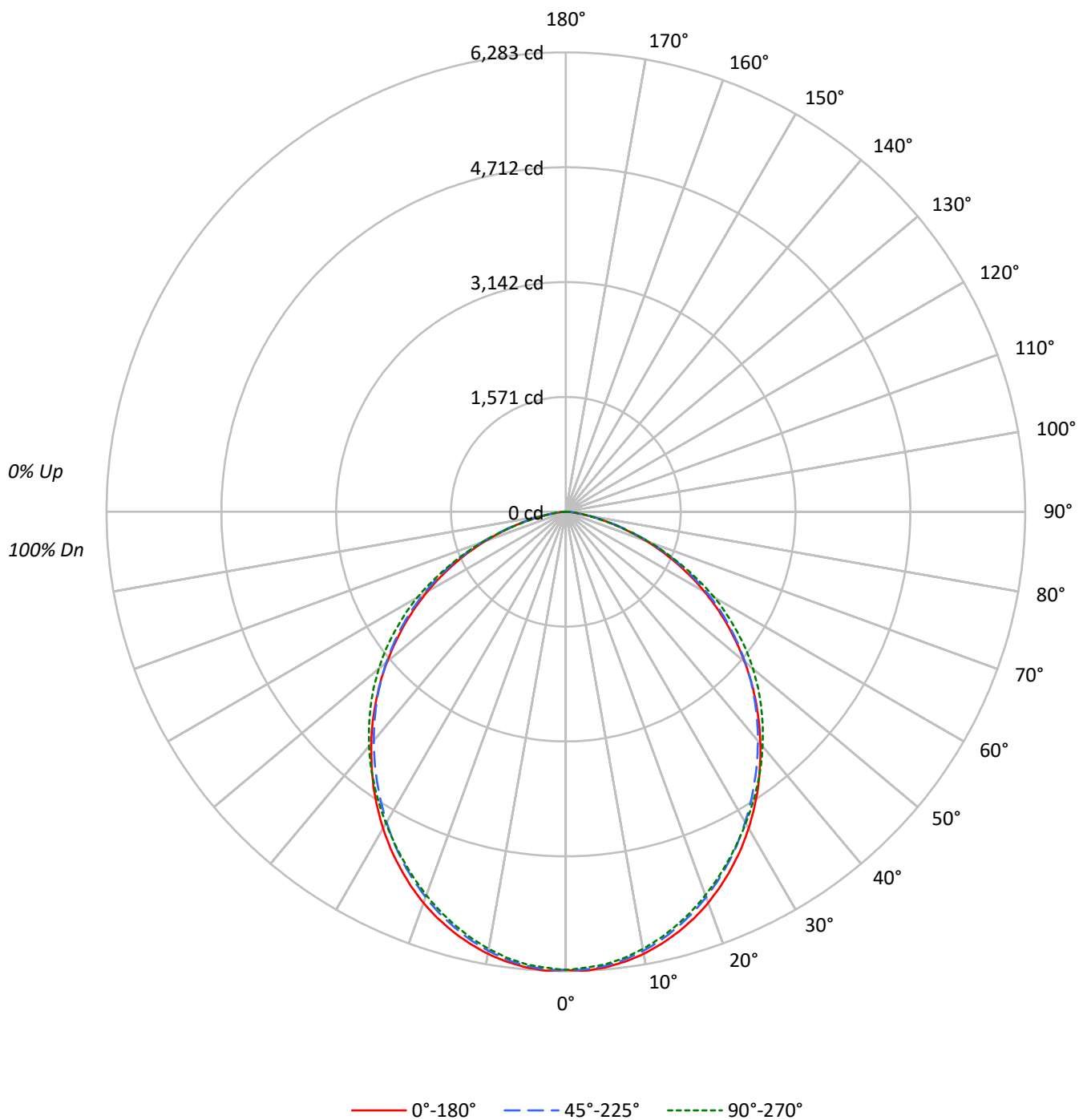
Lumens per Lamp: N/A
Luminaire Lumens: 15427.0 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 170.9
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	98	107	103	99	96	99	96	93	95	92	90	91	89	88	88	88	86
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	62
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	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	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	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8432	8432	8432
5°	8447	8420	8393
10°	8389	8333	8293
15°	8287	8198	8155
20°	8151	8033	7991
25°	7972	7840	7811
30°	7768	7620	7645
35°	7536	7396	7503
40°	7274	7179	7354
45°	6990	6956	7188
50°	6679	6704	6993
55°	6329	6412	6706
60°	5894	6037	6321
65°	5354	5529	5650
70°	4611	4801	4760
75°	3663	3808	3550
80°	2464	2489	2303
85°	1266	1555	1885

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7188 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	590.0	3.8
10°-20°	1658.2	10.7
20°-30°	2435.6	15.8
30°-40°	2836.0	18.4
40°-50°	2842.7	18.4
50°-60°	2456.9	15.9
60°-70°	1709.2	11.1
70°-80°	766.3	5.0
80°-90°	132.2	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°	4683.8	30.4
0°-40°	7519.8	48.7
0°-60°	12819.3	83.1
0°-90°	15427.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15427.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6267	6267	6267	6267	6267	
5°	6254	6228	6234	6206	6214	593
15°	5949	5911	5885	5846	5855	1676
25°	5370	5323	5281	5241	5262	2472
35°	4588	4531	4503	4524	4568	2867
45°	3673	3633	3656	3730	3778	2834
55°	2698	2669	2733	2826	2859	2408
65°	1682	1678	1737	1769	1775	1662
75°	705	711	733	704	683	757
85°	82	88	101	116	122	121
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6266.9	6266.9	6266.9	6266.9	6266.9
2.5°	6282.6	6256.5	6266.9	6244.5	6240.0
5°	6254.4	6227.5	6234.4	6205.7	6214.0
7.5°	6205.8	6177.4	6177.1	6145.8	6153.5
10°	6139.9	6106.5	6099.5	6063.9	6069.9
12.5°	6052.2	6017.8	6002.4	5962.0	5972.1
15°	5949.2	5911.2	5885.3	5845.6	5854.8
17.5°	5829.8	5788.0	5756.7	5710.5	5725.6
20°	5692.7	5647.9	5610.4	5561.3	5581.1
22.5°	5539.2	5492.1	5449.2	5405.4	5425.2
25°	5370.1	5322.6	5280.7	5240.8	5261.7
27.5°	5192.3	5139.4	5097.3	5069.0	5092.1
30°	4999.9	4945.3	4904.7	4887.6	4920.4
32.5°	4796.7	4742.9	4707.1	4708.8	4746.7
35°	4588.1	4531.4	4503.0	4524.0	4568.1
37.5°	4363.8	4316.3	4297.6	4337.5	4382.5
40°	4141.5	4092.0	4087.2	4139.8	4186.9
42.5°	3911.5	3867.9	3873.9	3941.1	3985.2
45°	3673.4	3633.1	3655.5	3729.6	3777.6
47.5°	3439.6	3398.2	3433.0	3514.0	3565.9
50°	3190.8	3157.4	3202.6	3293.2	3340.7
52.5°	2943.9	2911.7	2969.5	3064.8	3110.7
55°	2698.0	2669.1	2733.2	2825.8	2858.7
57.5°	2443.5	2427.4	2493.5	2574.7	2609.1
60°	2190.4	2176.6	2243.3	2318.3	2349.0
62.5°	1936.9	1929.4	1992.7	2053.0	2063.1
65°	1681.7	1677.6	1736.7	1768.7	1774.8
67.5°	1423.7	1426.8	1480.4	1496.3	1495.3
70°	1172.1	1172.1	1220.5	1224.1	1210.0
72.5°	927.6	934.7	965.7	957.2	934.9
75°	704.7	711.1	732.6	704.2	682.9
77.5°	497.2	502.5	511.4	480.3	467.0
80°	318.0	327.8	321.2	306.3	297.2
82.5°	177.6	187.6	181.8	195.3	201.4
85°	82.0	87.8	100.7	115.9	122.1
87.5°	27.9	33.2	41.2	44.0	41.0
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	18.34	19.92	18.70	20.24	20.55	18.76	20.34	19.12	20.66	20.97
	3H	19.79	21.21	20.16	21.54	21.90	20.16	21.59	20.54	21.92	22.28
	4H	20.20	21.54	20.60	21.89	22.27	20.53	21.87	20.93	22.21	22.59
	6H	20.40	21.64	20.82	22.01	22.40	20.68	21.92	21.09	22.28	22.67
	8H	20.43	21.61	20.85	22.00	22.40	20.70	21.88	21.13	22.27	22.67
	12H	20.43	21.55	20.86	21.94	22.36	20.71	21.84	21.14	22.22	22.65
4H	2H	18.93	20.26	19.33	20.61	20.99	19.27	20.60	19.67	20.95	21.33
	3H	20.55	21.66	20.96	22.06	22.46	20.86	21.97	21.27	22.37	22.77
	4H	21.05	22.05	21.48	22.46	22.90	21.30	22.30	21.74	22.72	23.16
	6H	21.32	22.19	21.78	22.64	23.09	21.52	22.39	21.98	22.83	23.29
	8H	21.36	22.18	21.83	22.62	23.09	21.56	22.38	22.03	22.82	23.29
	12H	21.37	22.10	21.86	22.58	23.05	21.59	22.32	22.07	22.80	23.27
8H	4H	21.23	22.04	21.69	22.49	22.95	21.46	22.28	21.93	22.72	23.19
	6H	21.56	22.23	22.05	22.72	23.19	21.73	22.40	22.22	22.89	23.37
	8H	21.62	22.22	22.13	22.73	23.22	21.80	22.39	22.31	22.90	23.39
	12H	21.65	22.18	22.16	22.67	23.24	21.85	22.38	22.36	22.87	23.44
12H	4H	21.23	21.95	21.71	22.43	22.90	21.46	22.19	21.94	22.66	23.13
	6H	21.55	22.15	22.06	22.66	23.15	21.72	22.32	22.23	22.83	23.32
	8H	21.65	22.18	22.16	22.67	23.23	21.82	22.35	22.33	22.84	23.40

END OF REPORT