

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: P1499721

Luminaire Tested: MAE-G-4-120-3STD-LO-40

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499721
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-LO-40
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

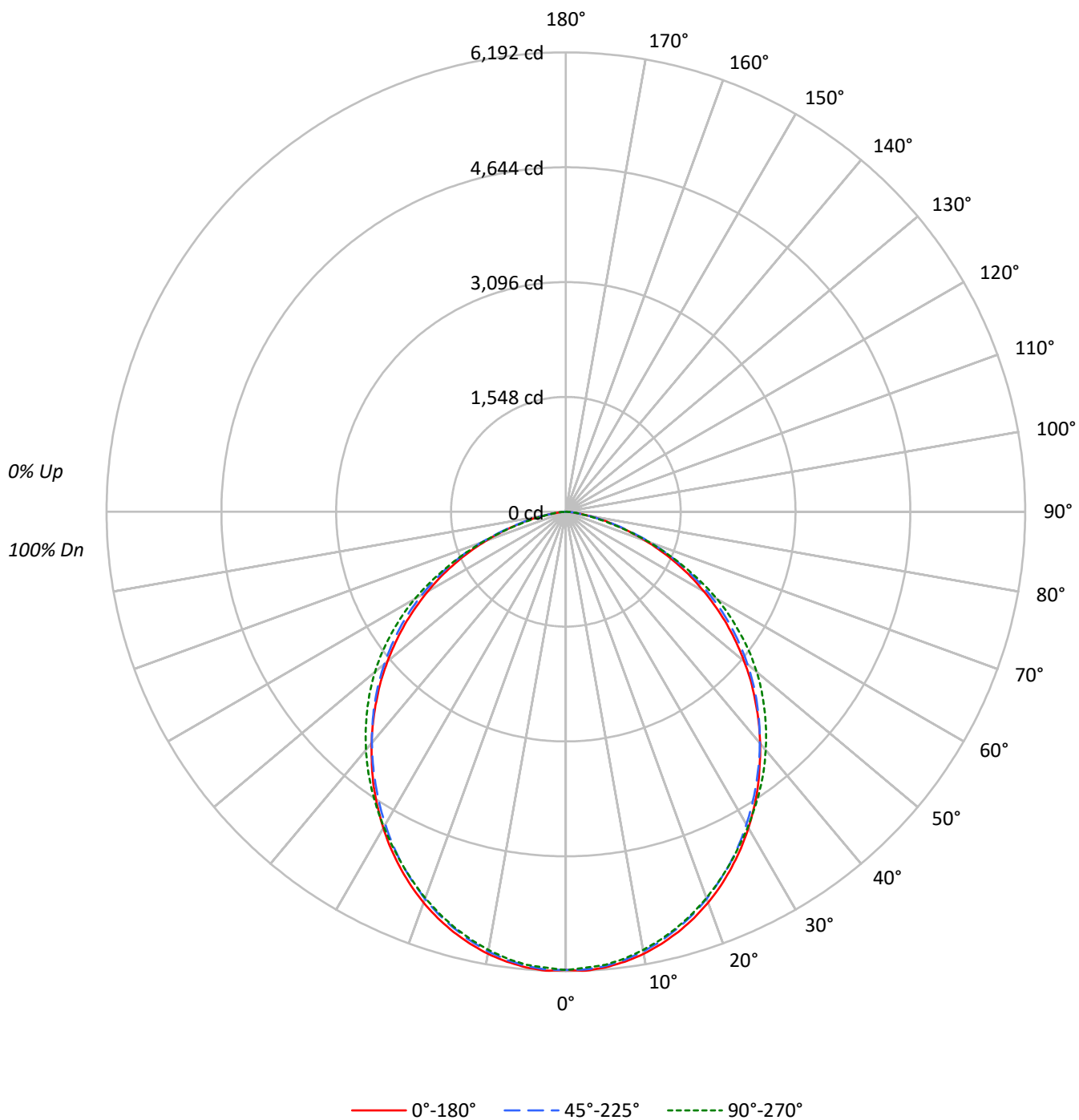
Lumens per Lamp: N/A
Luminaire Lumens: 15288.0 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 150.6
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	93	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°	8310	8310	8310
5°	8325	8300	8278
10°	8267	8222	8193
15°	8165	8099	8077
20°	8030	7950	7932
25°	7852	7770	7771
30°	7649	7563	7621
35°	7418	7351	7497
40°	7158	7144	7363
45°	6876	6932	7211
50°	6568	6688	7029
55°	6222	6402	6744
60°	5791	6032	6344
65°	5254	5521	5623
70°	4517	4762	4664
75°	3581	3719	3366
80°	2397	2336	2045
85°	1215	1379	1615

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7211 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.8	3.8
10°-20°	1638.3	10.7
20°-30°	2412.1	15.8
30°-40°	2815.2	18.4
40°-50°	2828.2	18.5
50°-60°	2448.3	16.0
60°-70°	1697.5	11.1
70°-80°	745.6	4.9
80°-90°	121.1	0.8
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°	4632.2	30.3
0°-40°	7447.4	48.7
0°-60°	12723.9	83.2
0°-90°	15288.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15288.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6176	6176	6176	6176	6176	
5°	6164	6136	6146	6121	6129	585
15°	5862	5827	5814	5787	5798	1652
25°	5289	5251	5234	5209	5234	2435
35°	4516	4475	4475	4514	4564	2822
45°	3614	3590	3643	3734	3790	2788
55°	2652	2640	2729	2838	2875	2368
65°	1650	1661	1734	1762	1766	1631
75°	689	702	715	674	648	740
85°	79	82	89	100	105	117
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6175.9	6175.9	6175.9	6175.9	6175.9
2.5°	6192.1	6163.5	6175.9	6157.2	6150.6
5°	6163.9	6135.5	6145.5	6121.3	6128.7
7.5°	6116.0	6086.7	6091.3	6066.1	6073.6
10°	6050.6	6017.5	6017.7	5990.5	5996.9
12.5°	5963.8	5930.8	5925.9	5895.7	5907.1
15°	5862.0	5826.8	5814.5	5787.3	5798.2
17.5°	5743.8	5706.5	5692.3	5659.7	5676.6
20°	5608.1	5569.4	5552.2	5516.9	5539.8
22.5°	5456.3	5417.1	5396.0	5367.2	5391.2
25°	5289.0	5251.4	5233.5	5209.0	5234.3
27.5°	5113.2	5071.6	5055.8	5043.4	5071.0
30°	4923.0	4881.0	4868.1	4867.1	4905.4
32.5°	4722.0	4682.3	4674.9	4693.5	4737.3
35°	4516.2	4474.6	4475.3	4513.6	4564.3
37.5°	4294.6	4262.8	4274.1	4331.7	4383.5
40°	4075.3	4041.9	4067.6	4137.9	4191.9
42.5°	3848.6	3821.6	3857.7	3943.1	3993.9
45°	3613.5	3590.5	3642.8	3734.3	3789.7
47.5°	3383.7	3358.7	3422.8	3521.3	3580.3
50°	3137.7	3121.2	3194.9	3302.7	3358.0
52.5°	2895.2	2879.0	2963.8	3076.3	3128.5
55°	2652.4	2639.7	2729.3	2837.6	2875.0
57.5°	2401.5	2401.2	2491.1	2584.6	2622.7
60°	2151.9	2153.7	2241.7	2325.2	2357.6
62.5°	1902.3	1909.8	1990.9	2054.9	2063.0
65°	1650.3	1660.9	1734.0	1762.2	1766.1
67.5°	1396.1	1412.5	1474.9	1482.8	1478.7
70°	1148.3	1160.2	1210.6	1204.4	1185.7
72.5°	907.6	924.7	951.2	931.5	904.2
75°	688.8	702.4	715.3	674.2	647.5
77.5°	485.0	494.2	492.1	448.5	430.1
80°	309.3	319.2	301.5	276.3	263.9
82.5°	171.6	179.8	164.7	171.9	175.7
85°	78.7	82.0	89.3	100.4	104.6
87.5°	26.9	30.5	36.1	38.1	35.2
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	18.29	19.87	18.65	20.18	20.50	18.82	20.40	19.18	20.72	21.03
	3H	19.73	21.15	20.10	21.48	21.84	20.18	21.61	20.56	21.93	22.29
	4H	20.14	21.48	20.54	21.82	22.20	20.51	21.85	20.91	22.20	22.58
	6H	20.34	21.57	20.75	21.94	22.33	20.63	21.87	21.05	22.24	22.63
	8H	20.36	21.53	20.78	21.92	22.32	20.65	21.82	21.07	22.21	22.61
	12H	20.35	21.48	20.78	21.86	22.29	20.65	21.78	21.08	22.16	22.59
4H	2H	18.89	20.23	19.29	20.58	20.95	19.32	20.66	19.72	21.00	21.38
	3H	20.50	21.61	20.91	22.01	22.41	20.86	21.98	21.27	22.37	22.77
	4H	21.00	22.00	21.43	22.41	22.85	21.28	22.27	21.71	22.69	23.13
	6H	21.27	22.13	21.72	22.58	23.03	21.46	22.32	21.91	22.77	23.22
	8H	21.30	22.11	21.76	22.56	23.02	21.48	22.29	21.94	22.73	23.20
	12H	21.31	22.04	21.79	22.51	22.98	21.50	22.22	21.98	22.70	23.17
8H	4H	21.17	21.98	21.64	22.43	22.89	21.43	22.24	21.89	22.68	23.15
	6H	21.49	22.16	21.98	22.65	23.12	21.65	22.31	22.14	22.80	23.28
	8H	21.55	22.15	22.06	22.65	23.14	21.69	22.29	22.20	22.80	23.28
	12H	21.58	22.10	22.09	22.60	23.16	21.73	22.26	22.24	22.75	23.31
12H	4H	21.17	21.89	21.65	22.37	22.84	21.42	22.15	21.90	22.62	23.09
	6H	21.48	22.08	21.99	22.58	23.07	21.63	22.23	22.15	22.74	23.23
	8H	21.57	22.09	22.08	22.59	23.15	21.71	22.24	22.22	22.73	23.29