

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: P1499625

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499625
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-4-120-3LO-LO-40
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

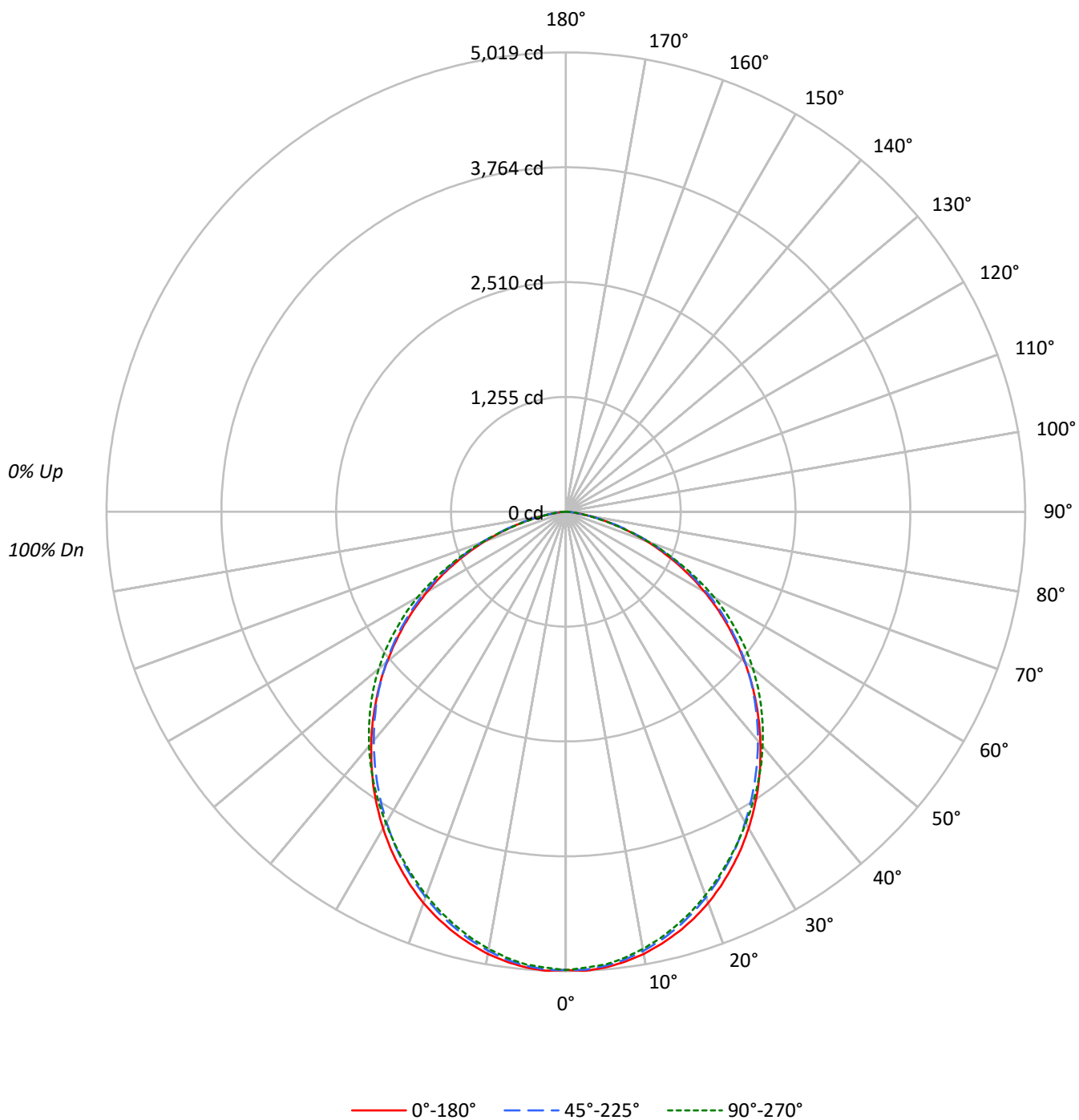
Lumens per Lamp: N/A
Luminaire Lumens: 12324.9 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 120.2
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53
7	67	53	45	39	65	53	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6737	6737	6737
5°	6749	6727	6705
10°	6702	6658	6625
15°	6621	6550	6516
20°	6512	6418	6384
25°	6369	6263	6241
30°	6206	6088	6107
35°	6021	5909	5995
40°	5811	5735	5875
45°	5584	5557	5743
50°	5336	5356	5587
55°	5057	5122	5358
60°	4709	4823	5050
65°	4277	4417	4514
70°	3684	3836	3803
75°	2926	3043	2836
80°	1969	1988	1840
85°	1010	1241	1507

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5743 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.4	3.8
10°-20°	1324.8	10.7
20°-30°	1945.8	15.8
30°-40°	2265.7	18.4
40°-50°	2271.1	18.4
50°-60°	1962.9	15.9
60°-70°	1365.5	11.1
70°-80°	612.2	5.0
80°-90°	105.6	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°	3742.0	30.4
0°-40°	6007.8	48.7
0°-60°	10241.7	83.1
0°-90°	12324.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12324.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5007	5007	5007	5007	5007	
5°	4997	4975	4981	4958	4965	474
15°	4753	4723	4702	4670	4678	1339
25°	4290	4252	4219	4187	4204	1975
35°	3666	3620	3598	3614	3650	2290
45°	2935	2903	2920	2980	3018	2264
55°	2156	2132	2184	2258	2284	1924
65°	1344	1340	1388	1413	1418	1328
75°	563	568	585	562	546	605
85°	65	70	80	93	98	97
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5006.8	5006.8	5006.8	5006.8	5006.8
2.5°	5019.3	4998.5	5006.8	4988.9	4985.3
5°	4996.8	4975.4	4980.8	4957.9	4964.6
7.5°	4958.0	4935.2	4935.0	4910.0	4916.1
10°	4905.3	4878.7	4873.0	4844.7	4849.4
12.5°	4835.3	4807.7	4795.5	4763.2	4771.3
15°	4752.9	4722.7	4701.9	4670.2	4677.5
17.5°	4657.5	4624.2	4599.2	4562.3	4574.3
20°	4548.0	4512.2	4482.4	4443.0	4458.8
22.5°	4425.4	4387.8	4353.4	4318.5	4334.3
25°	4290.3	4252.4	4218.8	4187.0	4203.7
27.5°	4148.3	4106.0	4072.4	4049.8	4068.2
30°	3994.5	3951.0	3918.5	3904.8	3931.0
32.5°	3832.2	3789.2	3760.7	3762.0	3792.3
35°	3665.5	3620.2	3597.6	3614.4	3649.6
37.5°	3486.3	3448.4	3433.4	3465.4	3501.2
40°	3308.7	3269.2	3265.3	3307.3	3345.0
42.5°	3125.0	3090.1	3094.9	3148.6	3183.8
45°	2934.7	2902.6	2920.5	2979.6	3018.0
47.5°	2748.0	2714.9	2742.7	2807.4	2848.8
50°	2549.3	2522.6	2558.7	2631.0	2669.0
52.5°	2351.9	2326.3	2372.4	2448.6	2485.2
55°	2155.6	2132.4	2183.6	2257.6	2283.9
57.5°	1952.2	1939.3	1992.1	2057.0	2084.5
60°	1750.0	1739.0	1792.2	1852.1	1876.7
62.5°	1547.4	1541.3	1592.0	1640.2	1648.3
65°	1343.5	1340.3	1387.5	1413.0	1417.9
67.5°	1137.4	1140.0	1182.7	1195.5	1194.7
70°	936.4	936.4	975.1	977.9	966.7
72.5°	741.1	746.8	771.4	764.7	746.9
75°	562.9	568.0	585.3	562.5	545.6
77.5°	397.2	401.4	408.6	383.6	373.1
80°	254.1	261.9	256.6	244.7	237.5
82.5°	141.8	149.8	145.2	155.9	160.9
85°	65.4	70.2	80.4	92.6	97.6
87.5°	22.3	26.5	32.9	35.1	32.7
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	17.56	19.14	17.92	19.46	19.77	17.98	19.56	18.34	19.88	20.19
	3H	19.01	20.43	19.38	20.76	21.12	19.38	20.81	19.76	21.14	21.50
	4H	19.42	20.76	19.82	21.11	21.49	19.75	21.09	20.15	21.43	21.81
	6H	19.62	20.86	20.04	21.23	21.62	19.90	21.14	20.31	21.50	21.89
	8H	19.65	20.83	20.07	21.22	21.62	19.92	21.10	20.35	21.49	21.89
	12H	19.65	20.77	20.08	21.15	21.58	19.93	21.06	20.36	21.44	21.87
4H	2H	18.15	19.48	18.55	19.83	20.21	18.49	19.82	18.89	20.17	20.55
	3H	19.77	20.88	20.18	21.28	21.68	20.08	21.19	20.49	21.59	21.99
	4H	20.27	21.27	20.70	21.68	22.12	20.52	21.52	20.96	21.94	22.38
	6H	20.54	21.41	21.00	21.86	22.31	20.74	21.61	21.20	22.05	22.51
	8H	20.58	21.40	21.05	21.84	22.31	20.78	21.60	21.25	22.04	22.51
	12H	20.59	21.32	21.08	21.80	22.27	20.81	21.54	21.29	22.02	22.49
8H	4H	20.45	21.26	20.91	21.71	22.17	20.68	21.50	21.15	21.94	22.41
	6H	20.78	21.45	21.27	21.94	22.41	20.95	21.62	21.44	22.11	22.59
	8H	20.84	21.44	21.35	21.95	22.44	21.02	21.61	21.53	22.12	22.61
	12H	20.87	21.40	21.38	21.89	22.46	21.07	21.60	21.58	22.09	22.66
12H	4H	20.45	21.17	20.93	21.65	22.12	20.68	21.41	21.16	21.88	22.35
	6H	20.77	21.37	21.28	21.88	22.37	20.94	21.54	21.45	22.05	22.54
	8H	20.87	21.40	21.37	21.89	22.45	21.04	21.57	21.55	22.06	22.62