

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: P1499584

Luminaire Tested: MAE-G-4-120-3LO-HI-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499584
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-HI-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

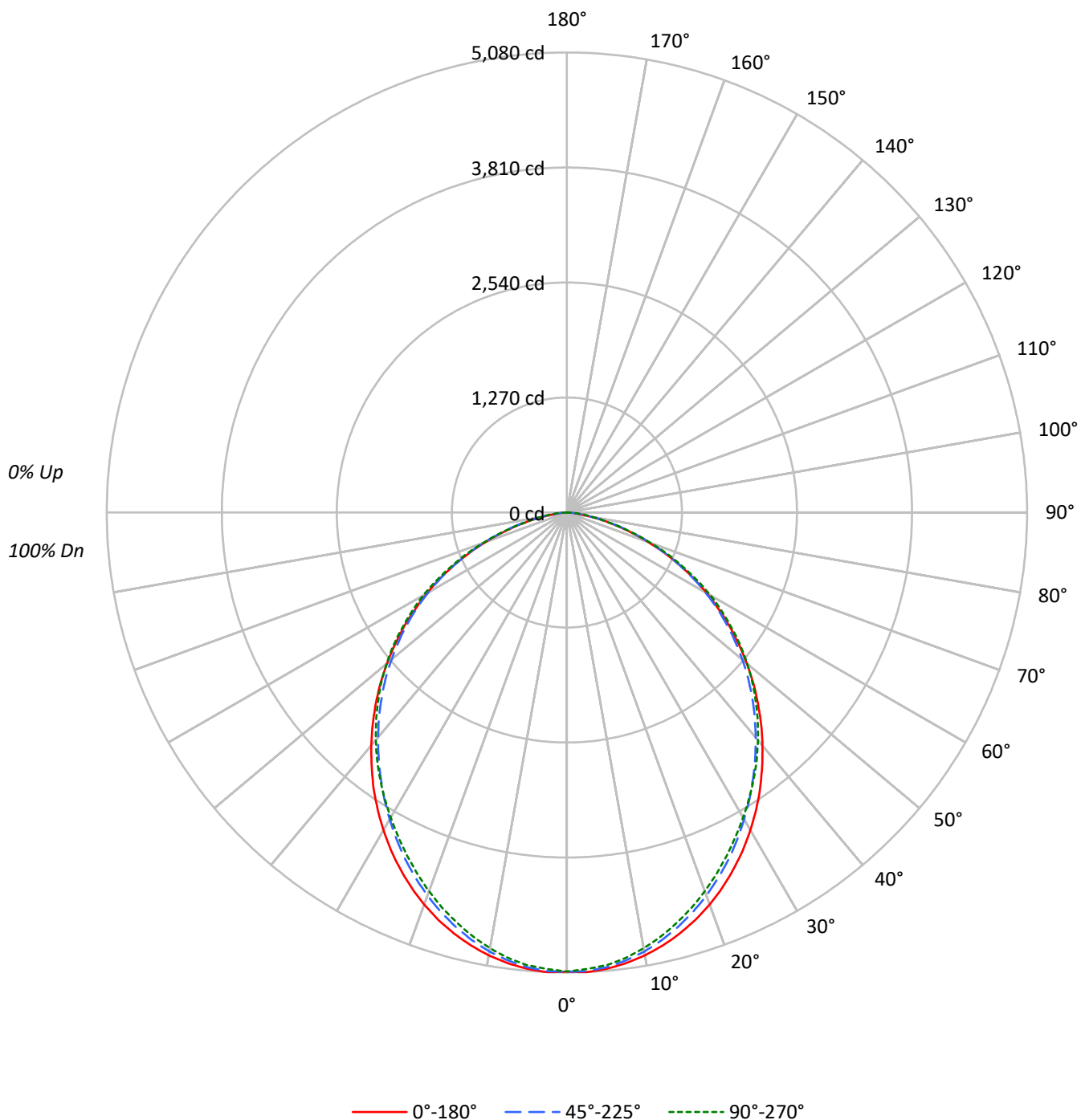
Lumens per Lamp: N/A
Luminaire Lumens: 12342.0 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 160.9
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

TEST NUMBER: P1499584

CATALOG NUMBER: MAE-G-4-120-3LO-HI-30-90-VRDCPH

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	80	98	90	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	56		66	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	41	35	61	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	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6820	6820	6820
5°	6832	6807	6778
10°	6785	6725	6675
15°	6705	6598	6533
20°	6597	6445	6373
25°	6456	6271	6202
30°	6294	6078	6043
35°	6109	5884	5905
40°	5900	5695	5763
45°	5674	5503	5610
50°	5425	5292	5436
55°	5143	5051	5207
60°	4796	4749	4929
65°	4366	4358	4484
70°	3772	3835	3893
75°	3008	3136	3084
80°	2046	2200	2221
85°	1073	1499	1913

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5674 cd/sqm

TEST NUMBER: P1499584

CATALOG NUMBER: MAE-G-4-120-3LO-HI-30-90-VRDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.7	3.9
10°-20°	1334.6	10.8
20°-30°	1950.9	15.8
30°-40°	2261.3	18.3
40°-50°	2256.4	18.3
50°-60°	1943.9	15.8
60°-70°	1361.4	11.0
70°-80°	635.1	5.1
80°-90°	121.6	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°	3762.2	30.5
0°-40°	6023.4	48.8
0°-60°	10223.8	82.8
0°-90°	12342.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12342.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5069	5069	5069	5069	5069	
5°	5058	5040	5040	5010	5018	480
15°	4813	4779	4737	4686	4690	1356
25°	4348	4296	4224	4168	4177	2002
35°	3720	3651	3582	3571	3595	2324
45°	2982	2922	2892	2922	2948	2300
55°	2193	2144	2153	2201	2220	1957
65°	1371	1345	1369	1400	1408	1355
75°	579	572	603	601	593	622
85°	70	78	97	116	124	102
90°	0	0	0	0	0	

TEST NUMBER: P1499584

CATALOG NUMBER: MAE-G-4-120-3LO-HI-30-90-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5069.0	5069.0	5069.0	5069.0	5069.0
2.5°	5080.4	5064.0	5069.0	5045.7	5045.3
5°	5058.2	5039.8	5040.0	5010.3	5018.3
7.5°	5019.2	4998.0	4989.9	4955.7	4962.1
10°	4966.4	4939.9	4922.5	4881.4	4885.5
12.5°	4896.1	4866.7	4838.0	4789.8	4795.8
15°	4813.2	4779.0	4736.9	4685.6	4690.1
17.5°	4717.3	4677.6	4625.7	4567.6	4576.5
20°	4607.5	4562.6	4500.9	4440.0	4450.6
22.5°	4484.1	4434.6	4366.0	4307.5	4316.5
25°	4348.4	4295.5	4223.9	4168.1	4177.4
27.5°	4205.6	4146.2	4071.0	4023.4	4034.2
30°	4050.9	3988.0	3911.9	3872.6	3889.4
32.5°	3887.8	3823.0	3749.8	3723.9	3744.3
35°	3719.5	3650.7	3582.1	3570.8	3595.0
37.5°	3539.0	3476.4	3413.8	3417.0	3441.3
40°	3359.4	3294.7	3242.3	3255.1	3281.4
42.5°	3173.5	3112.8	3069.1	3093.1	3116.9
45°	2981.7	2922.4	2892.3	2922.4	2948.4
47.5°	2791.6	2732.7	2713.5	2749.0	2778.3
50°	2591.9	2538.3	2528.3	2571.9	2596.9
52.5°	2390.5	2339.9	2341.9	2389.5	2415.3
55°	2192.6	2143.8	2153.4	2201.0	2219.7
57.5°	1987.1	1948.9	1962.8	2006.8	2028.1
60°	1782.3	1746.9	1764.9	1810.3	1831.8
62.5°	1577.0	1546.9	1568.2	1610.0	1621.2
65°	1371.4	1344.7	1368.7	1399.8	1408.3
67.5°	1162.5	1144.1	1171.8	1197.2	1201.3
70°	958.9	939.7	974.8	993.0	989.6
72.5°	760.7	750.5	781.6	793.1	783.5
75°	578.7	572.4	603.2	601.0	593.2
77.5°	410.0	408.1	432.7	428.0	425.7
80°	264.0	271.3	283.9	288.5	286.7
82.5°	149.0	159.7	170.1	190.7	199.2
85°	69.5	78.2	97.1	115.8	123.9
87.5°	23.5	30.3	40.5	43.9	41.5
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	17.60	19.19	17.97	19.50	19.82	17.80	19.38	18.16	19.70	20.01
	3H	19.06	20.49	19.44	20.82	21.18	19.29	20.72	19.67	21.04	21.41
	4H	19.49	20.83	19.89	21.18	21.55	19.72	21.06	20.12	21.41	21.79
	6H	19.70	20.94	20.11	21.30	21.70	19.94	21.18	20.35	21.54	21.94
	8H	19.73	20.91	20.16	21.30	21.70	19.99	21.17	20.42	21.56	21.96
	12H	19.73	20.86	20.16	21.24	21.67	20.02	21.15	20.45	21.54	21.97
4H	2H	18.16	19.50	18.56	19.85	20.23	18.32	19.66	18.72	20.01	20.38
	3H	19.80	20.92	20.21	21.31	21.71	20.00	21.12	20.41	21.52	21.92
	4H	20.31	21.32	20.75	21.73	22.17	20.53	21.53	20.96	21.95	22.38
	6H	20.60	21.47	21.06	21.92	22.37	20.83	21.70	21.29	22.15	22.60
	8H	20.65	21.46	21.11	21.91	22.37	20.91	21.72	21.37	22.16	22.63
	12H	20.66	21.39	21.14	21.87	22.34	20.96	21.69	21.45	22.17	22.64
8H	4H	20.51	21.33	20.97	21.77	22.24	20.71	21.52	21.17	21.96	22.43
	6H	20.86	21.53	21.35	22.02	22.50	21.07	21.74	21.57	22.23	22.71
	8H	20.93	21.53	21.44	22.04	22.53	21.18	21.79	21.69	22.29	22.78
	12H	20.97	21.50	21.48	21.99	22.55	21.28	21.81	21.79	22.31	22.87
12H	4H	20.51	21.24	20.99	21.72	22.19	20.70	21.43	21.19	21.91	22.38
	6H	20.86	21.46	21.37	21.97	22.46	21.07	21.67	21.58	22.18	22.67
	8H	20.97	21.50	21.48	21.99	22.55	21.22	21.75	21.73	22.24	22.80