

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: P1499606

Luminaire Tested: MAE-G-4-120-3LO-HI-50-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499606
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-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

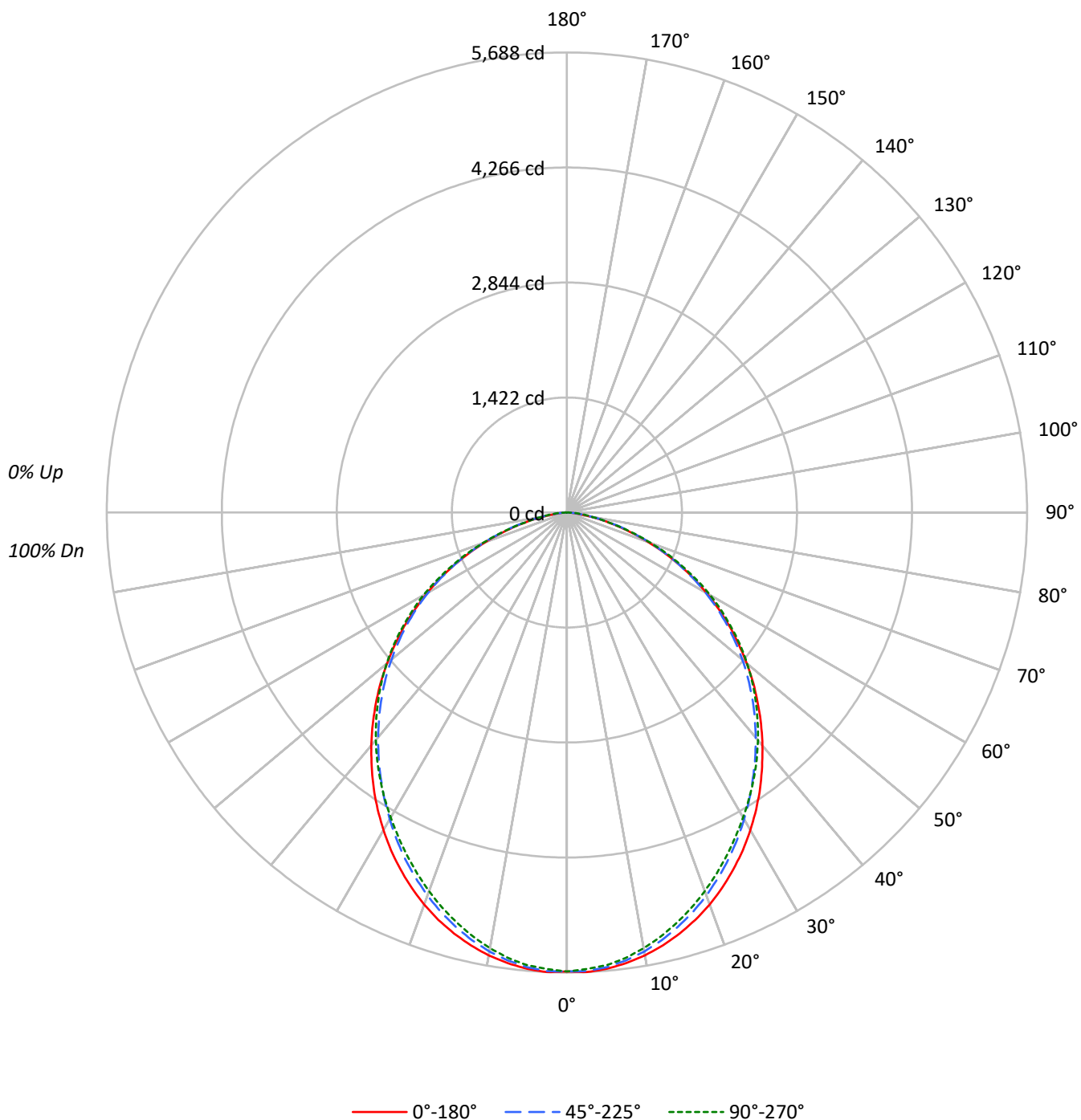
Lumens per Lamp: N/A
Luminaire Lumens: 13817.0 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P1499606

CATALOG NUMBER: MAE-G-4-120-3LO-HI-50-WDDCPH

Luminous Intensity Polar Plot



TEST NUMBER: P1499606

CATALOG NUMBER: MAE-G-4-120-3LO-HI-50-WDDCPH

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°	7635	7635	7635
5°	7648	7621	7588
10°	7596	7529	7472
15°	7506	7387	7314
20°	7386	7215	7134
25°	7227	7020	6943
30°	7046	6804	6765
35°	6840	6587	6611
40°	6606	6375	6452
45°	6352	6161	6281
50°	6074	5925	6085
55°	5758	5655	5829
60°	5369	5317	5518
65°	4888	4878	5019
70°	4223	4293	4358
75°	3368	3511	3452
80°	2290	2462	2487
85°	1201	1680	2141

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6352 cd/sqm

TEST NUMBER: P1499606

CATALOG NUMBER: MAE-G-4-120-3LO-HI-50-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.6	3.9
10°-20°	1494.1	10.8
20°-30°	2184.1	15.8
30°-40°	2531.5	18.3
40°-50°	2526.1	18.3
50°-60°	2176.2	15.8
60°-70°	1524.1	11.0
70°-80°	711.1	5.1
80°-90°	136.2	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°	4211.8	30.5
0°-40°	6743.3	48.8
0°-60°	11445.6	82.8
0°-90°	13817.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13817.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5675	5675	5675	5675	5675	
5°	5663	5642	5642	5609	5618	537
15°	5388	5350	5303	5246	5251	1519
25°	4868	4809	4729	4666	4677	2241
35°	4164	4087	4010	3998	4025	2602
45°	3338	3272	3238	3272	3301	2575
55°	2455	2400	2411	2464	2485	2191
65°	1535	1505	1532	1567	1577	1517
75°	648	641	675	673	664	696
85°	78	88	109	130	139	114
90°	0	0	0	0	0	

TEST NUMBER: P1499606

CATALOG NUMBER: MAE-G-4-120-3LO-HI-50-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5674.8	5674.8	5674.8	5674.8	5674.8
2.5°	5687.5	5669.2	5674.8	5648.6	5648.3
5°	5662.7	5642.1	5642.3	5609.0	5618.0
7.5°	5619.0	5595.2	5586.2	5547.9	5555.1
10°	5559.9	5530.3	5510.7	5464.8	5469.3
12.5°	5481.3	5448.3	5416.2	5362.2	5369.0
15°	5388.4	5350.2	5303.0	5245.6	5250.6
17.5°	5281.1	5236.7	5178.5	5113.5	5123.4
20°	5158.2	5107.9	5038.8	4970.6	4982.5
22.5°	5020.1	4964.7	4887.8	4822.4	4832.5
25°	4868.2	4808.8	4728.8	4666.2	4676.6
27.5°	4708.2	4641.8	4557.5	4504.3	4516.4
30°	4535.0	4464.6	4379.3	4335.3	4354.3
32.5°	4352.5	4279.9	4198.0	4168.9	4191.7
35°	4164.0	4087.0	4010.2	3997.6	4024.7
37.5°	3961.9	3891.9	3821.8	3825.4	3852.5
40°	3760.9	3688.4	3629.7	3644.1	3673.5
42.5°	3552.8	3484.8	3435.9	3462.7	3489.3
45°	3338.0	3271.7	3237.9	3271.6	3300.7
47.5°	3125.2	3059.2	3037.8	3077.6	3110.4
50°	2901.6	2841.8	2830.5	2879.3	2907.2
52.5°	2676.2	2619.5	2621.8	2675.2	2704.0
55°	2454.7	2400.0	2410.6	2464.0	2485.0
57.5°	2224.6	2181.8	2197.4	2246.6	2270.4
60°	1995.3	1955.7	1975.9	2026.6	2050.6
62.5°	1765.4	1731.8	1755.6	1802.4	1815.0
65°	1535.2	1505.4	1532.2	1567.1	1576.6
67.5°	1301.5	1280.8	1311.8	1340.4	1344.9
70°	1073.4	1052.1	1091.3	1111.8	1107.8
72.5°	851.6	840.1	875.1	887.9	877.2
75°	647.9	640.8	675.3	672.9	664.1
77.5°	459.0	456.8	484.4	479.1	476.6
80°	295.5	303.8	317.8	323.0	321.0
82.5°	166.9	178.8	190.4	213.4	223.0
85°	77.8	87.5	108.8	129.6	138.7
87.5°	26.3	33.9	45.4	49.2	46.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1499606

CATALOG NUMBER: MAE-G-4-120-3LO-HI-50-WDDCPH

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	18.00	19.58	18.36	19.89	20.21	18.19	19.78	18.56	20.09	20.40
	3H	19.46	20.88	19.83	21.21	21.57	19.68	21.11	20.06	21.44	21.80
	4H	19.88	21.22	20.28	21.57	21.95	20.11	21.45	20.51	21.80	22.18
	6H	20.09	21.33	20.51	21.70	22.09	20.33	21.57	20.75	21.94	22.33
	8H	20.12	21.30	20.55	21.69	22.09	20.39	21.57	20.81	21.95	22.35
	12H	20.12	21.25	20.55	21.63	22.06	20.42	21.55	20.85	21.93	22.36
4H	2H	18.55	19.89	18.95	20.24	20.62	18.71	20.05	19.11	20.40	20.78
	3H	20.19	21.31	20.60	21.71	22.11	20.40	21.51	20.81	21.91	22.31
	4H	20.71	21.71	21.14	22.12	22.56	20.92	21.92	21.35	22.34	22.78
	6H	20.99	21.87	21.45	22.31	22.77	21.22	22.10	21.68	22.54	23.00
	8H	21.04	21.85	21.50	22.30	22.76	21.30	22.11	21.76	22.56	23.02
	12H	21.05	21.78	21.54	22.26	22.73	21.36	22.09	21.84	22.56	23.03
8H	4H	20.90	21.72	21.37	22.16	22.63	21.10	21.91	21.56	22.36	22.82
	6H	21.25	21.92	21.74	22.41	22.89	21.46	22.14	21.96	22.62	23.10
	8H	21.32	21.92	21.83	22.43	22.92	21.57	22.18	22.09	22.69	23.17
	12H	21.36	21.89	21.87	22.38	22.95	21.67	22.21	22.18	22.70	23.26
12H	4H	20.91	21.63	21.39	22.11	22.58	21.10	21.83	21.58	22.30	22.77
	6H	21.25	21.86	21.76	22.36	22.85	21.46	22.06	21.97	22.57	23.06
	8H	21.36	21.89	21.87	22.38	22.95	21.61	22.14	22.12	22.63	23.20