

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: P1499747

Luminaire Tested: MAE-G-4-120-3STD-STD-50-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499747
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-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

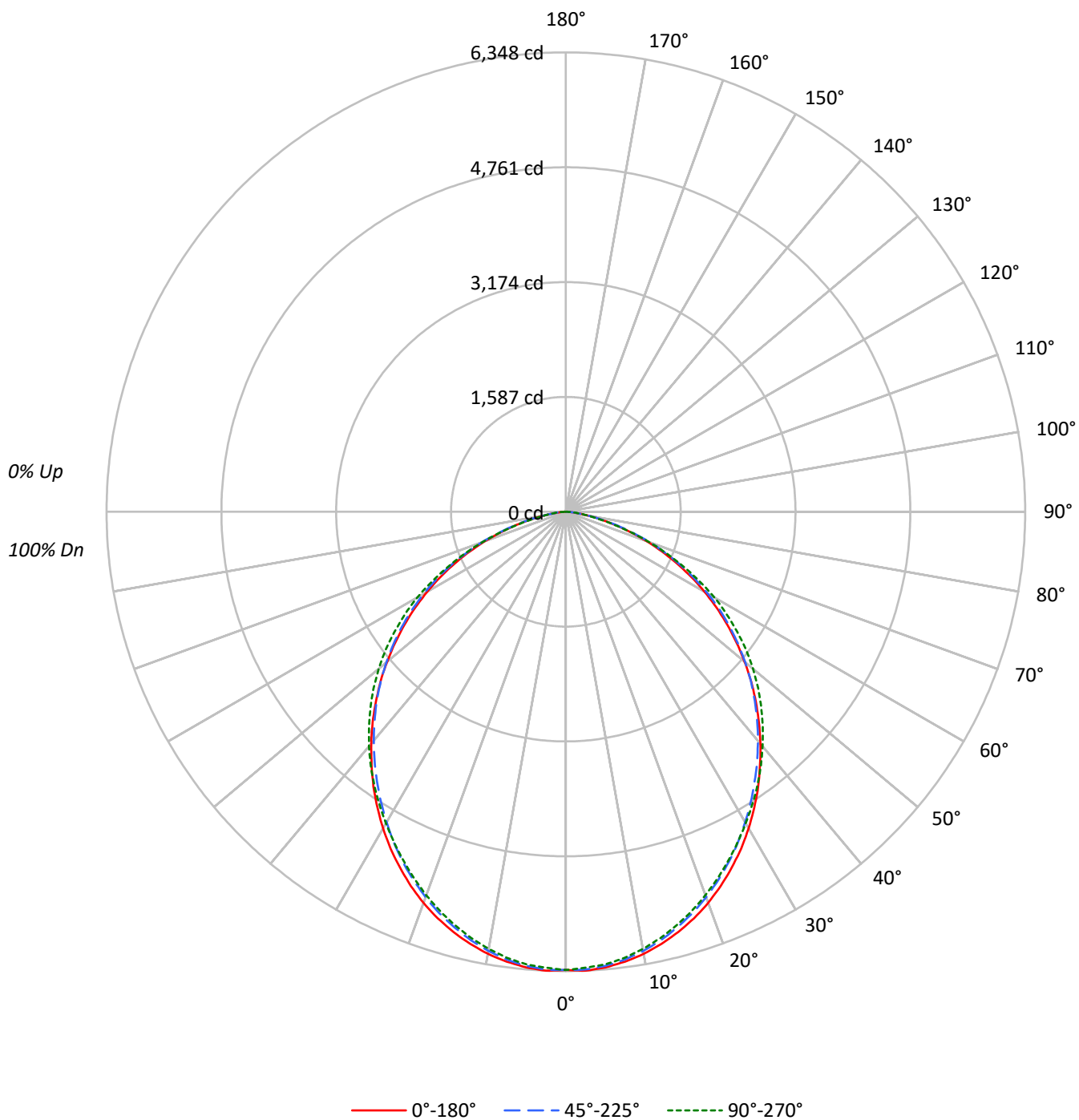
Lumens per Lamp: N/A
Luminaire Lumens: 15587.0 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
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°	8520	8520	8520
5°	8535	8508	8480
10°	8476	8420	8379
15°	8373	8283	8240
20°	8236	8117	8074
25°	8055	7921	7892
30°	7849	7699	7724
35°	7614	7473	7581
40°	7350	7253	7430
45°	7062	7028	7262
50°	6749	6773	7065
55°	6395	6478	6775
60°	5955	6099	6386
65°	5410	5587	5709
70°	4659	4851	4810
75°	3701	3848	3587
80°	2490	2514	2327
85°	1278	1570	1905

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7262 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.2	3.8
10°-20°	1675.4	10.7
20°-30°	2460.8	15.8
30°-40°	2865.4	18.4
40°-50°	2872.1	18.4
50°-60°	2482.3	15.9
60°-70°	1726.9	11.1
70°-80°	774.2	5.0
80°-90°	133.6	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°	4732.4	30.4
0°-40°	7597.8	48.7
0°-60°	12952.3	83.1
0°-90°	15587.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15587.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6332	6332	6332	6332	6332	
5°	6319	6292	6299	6270	6278	599
15°	6011	5972	5946	5906	5916	1694
25°	5426	5378	5335	5295	5316	2498
35°	4636	4578	4550	4571	4616	2896
45°	3712	3671	3694	3768	3817	2864
55°	2726	2697	2762	2855	2888	2433
65°	1699	1695	1755	1787	1793	1679
75°	712	718	740	711	690	765
85°	83	89	102	117	123	123
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6331.9	6331.9	6331.9	6331.9	6331.9
2.5°	6347.7	6321.5	6331.9	6309.4	6304.8
5°	6319.3	6292.2	6299.0	6270.0	6278.4
7.5°	6270.3	6241.5	6241.2	6209.6	6217.4
10°	6203.5	6169.9	6162.7	6126.8	6132.9
12.5°	6115.0	6080.3	6064.7	6023.9	6034.0
15°	6010.9	5972.5	5946.3	5906.3	5915.5
17.5°	5890.2	5848.1	5816.5	5769.8	5784.9
20°	5751.7	5706.5	5668.6	5619.0	5639.0
22.5°	5596.6	5549.1	5505.7	5461.4	5481.5
25°	5425.8	5377.8	5335.4	5295.2	5316.2
27.5°	5246.1	5192.7	5150.2	5121.6	5145.0
30°	5051.8	4996.6	4955.6	4938.3	4971.4
32.5°	4846.4	4792.1	4756.0	4757.6	4796.0
35°	4635.7	4578.4	4549.8	4570.9	4615.5
37.5°	4409.0	4361.1	4342.2	4382.6	4427.8
40°	4184.4	4134.4	4129.5	4182.6	4230.3
42.5°	3952.1	3908.1	3914.1	3982.0	4026.5
45°	3711.6	3670.8	3693.5	3768.1	3816.7
47.5°	3475.2	3433.4	3468.7	3550.4	3602.8
50°	3224.0	3190.1	3235.9	3327.3	3375.3
52.5°	2974.4	2942.0	3000.2	3096.6	3142.9
55°	2726.0	2696.7	2761.5	2855.0	2888.3
57.5°	2469.0	2452.6	2519.4	2601.4	2636.1
60°	2213.1	2199.3	2266.6	2342.4	2373.3
62.5°	1957.1	1949.3	2013.3	2074.4	2084.6
65°	1699.2	1695.1	1754.8	1787.0	1793.3
67.5°	1438.4	1441.7	1495.7	1511.9	1510.8
70°	1184.3	1184.2	1233.2	1236.7	1222.6
72.5°	937.3	944.4	975.6	967.2	944.6
75°	712.0	718.4	740.2	711.4	690.0
77.5°	502.3	507.7	516.8	485.3	471.8
80°	321.3	331.3	324.5	309.5	300.3
82.5°	179.5	189.5	183.6	197.3	203.5
85°	82.8	88.7	101.7	117.1	123.4
87.5°	28.2	33.6	41.6	44.4	41.4
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	18.37	19.96	18.74	20.27	20.59	18.79	20.38	19.16	20.69	21.01
	3H	19.82	21.25	20.20	21.57	21.93	20.20	21.62	20.58	21.95	22.31
	4H	20.24	21.58	20.64	21.92	22.30	20.56	21.90	20.96	22.25	22.63
	6H	20.44	21.68	20.85	22.04	22.43	20.71	21.95	21.13	22.32	22.71
	8H	20.46	21.64	20.89	22.03	22.43	20.74	21.92	21.16	22.31	22.71
	12H	20.46	21.59	20.89	21.97	22.40	20.75	21.88	21.18	22.26	22.69
4H	2H	18.96	20.30	19.36	20.65	21.03	19.30	20.64	19.70	20.99	21.36
	3H	20.58	21.69	20.99	22.09	22.49	20.89	22.00	21.30	22.40	22.80
	4H	21.09	22.09	21.52	22.50	22.94	21.34	22.34	21.77	22.75	23.19
	6H	21.36	22.23	21.82	22.67	23.13	21.56	22.43	22.02	22.87	23.33
	8H	21.40	22.21	21.86	22.65	23.12	21.60	22.41	22.06	22.85	23.32
	12H	21.41	22.14	21.89	22.61	23.08	21.63	22.35	22.11	22.83	23.30
8H	4H	21.27	22.08	21.73	22.52	22.99	21.50	22.31	21.96	22.76	23.22
	6H	21.59	22.26	22.09	22.75	23.23	21.77	22.43	22.26	22.92	23.40
	8H	21.66	22.26	22.17	22.77	23.25	21.83	22.43	22.34	22.94	23.43
	12H	21.69	22.22	22.20	22.71	23.27	21.89	22.42	22.40	22.91	23.47
12H	4H	21.26	21.99	21.74	22.47	22.94	21.50	22.22	21.98	22.70	23.17
	6H	21.59	22.19	22.10	22.70	23.18	21.76	22.36	22.27	22.87	23.35
	8H	21.68	22.21	22.19	22.70	23.27	21.86	22.38	22.36	22.88	23.44

END OF REPORT