

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: P1499244

Luminaire Tested: MAE-G-4-120-2HI-LO-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2HI-LO-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

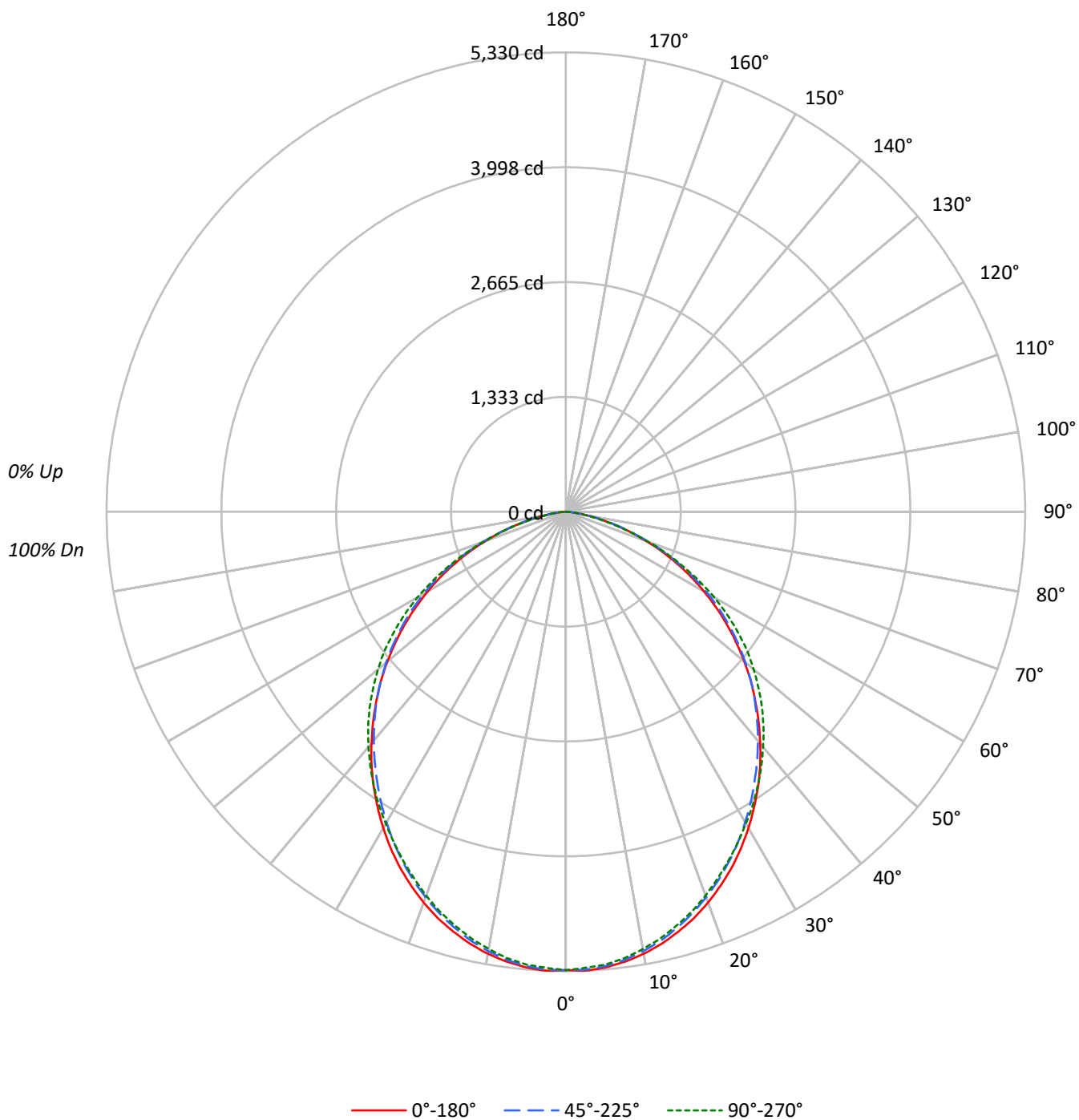
Lumens per Lamp: N/A
Luminaire Lumens: 13078.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 136.8
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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86		
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	78	65	56	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	34	46	39	34	44	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7156	7156	7156
5°	7167	7147	7122
10°	7115	7073	7038
15°	7025	6958	6922
20°	6908	6814	6785
25°	6760	6649	6629
30°	6584	6466	6492
35°	6387	6272	6376
40°	6161	6091	6256
45°	5919	5902	6127
50°	5655	5695	5954
55°	5353	5442	5715
60°	4988	5122	5362
65°	4526	4677	4779
70°	3896	4027	3993
75°	3092	3165	2976
80°	2073	2049	1883
85°	1037	1246	1514

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6127 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.7	3.8
10°-20°	1407.3	10.8
20°-30°	2067.0	15.8
30°-40°	2407.9	18.4
40°-50°	2413.9	18.5
50°-60°	2085.7	15.9
60°-70°	1445.5	11.1
70°-80°	641.9	4.9
80°-90°	108.2	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°	3975.0	30.4
0°-40°	6382.9	48.8
0°-60°	10882.4	83.2
0°-90°	13078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13078.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5318	5318	5318	5318	5318	
5°	5306	5284	5291	5267	5273	503
15°	5044	5012	4995	4963	4969	1422
25°	4554	4517	4478	4452	4465	2096
35°	3888	3845	3818	3846	3882	2430
45°	3111	3079	3102	3174	3220	2400
55°	2282	2263	2320	2403	2436	2038
65°	1422	1424	1469	1488	1501	1407
75°	595	600	609	583	572	640
85°	67	72	81	93	98	101
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5318.2	5318.2	5318.2	5318.2	5318.2
2.5°	5330.1	5308.0	5318.2	5300.4	5295.3
5°	5306.2	5283.9	5291.3	5267.3	5272.8
7.5°	5265.2	5241.2	5243.4	5217.9	5224.1
10°	5207.9	5180.1	5177.3	5147.1	5151.1
12.5°	5134.9	5105.5	5096.2	5062.9	5070.4
15°	5043.6	5012.4	4995.2	4963.3	4969.0
17.5°	4943.8	4912.4	4883.8	4851.1	4862.9
20°	4824.7	4792.6	4759.1	4724.6	4738.9
22.5°	4693.5	4658.3	4625.5	4592.7	4603.9
25°	4553.8	4516.7	4478.4	4452.1	4465.3
27.5°	4401.6	4360.5	4324.8	4304.3	4322.5
30°	4238.1	4196.5	4162.1	4154.7	4178.5
32.5°	4065.9	4025.3	3993.9	4004.6	4037.4
35°	3888.4	3845.4	3818.5	3846.0	3881.9
37.5°	3704.2	3662.4	3644.7	3688.3	3726.1
40°	3507.7	3471.7	3467.6	3522.0	3561.6
42.5°	3311.3	3278.1	3287.0	3352.7	3395.6
45°	3110.7	3078.8	3101.8	3174.4	3220.1
47.5°	2912.8	2878.9	2914.5	2993.6	3034.6
50°	2701.8	2675.6	2720.5	2802.4	2844.3
52.5°	2491.9	2468.2	2522.3	2608.0	2655.1
55°	2281.9	2262.6	2320.0	2403.0	2436.2
57.5°	2067.3	2056.8	2115.8	2186.9	2217.8
60°	1853.7	1845.2	1903.4	1965.5	1992.7
62.5°	1638.0	1633.2	1688.8	1734.4	1747.5
65°	1421.6	1424.0	1469.0	1487.9	1501.0
67.5°	1210.6	1210.8	1249.3	1261.0	1262.1
70°	990.4	997.7	1023.7	1022.3	1015.1
72.5°	789.9	792.8	808.1	794.4	783.1
75°	594.8	599.5	608.8	582.6	572.5
77.5°	417.7	427.9	420.9	397.1	388.0
80°	267.5	277.9	264.4	250.4	243.0
82.5°	148.5	154.4	147.5	158.1	162.4
85°	67.2	71.9	80.7	93.4	98.1
87.5°	22.8	27.2	33.5	35.2	33.0
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	17.76	19.34	18.13	19.66	19.97	18.20	19.78	18.56	20.10	20.41
	3H	19.21	20.64	19.59	20.96	21.32	19.58	21.00	19.96	21.33	21.69
	4H	19.63	20.97	20.03	21.31	21.69	19.93	21.27	20.33	21.62	21.99
	6H	19.83	21.06	20.24	21.43	21.82	20.08	21.31	20.49	21.68	22.07
	8H	19.85	21.03	20.28	21.42	21.82	20.10	21.27	20.52	21.66	22.06
	12H	19.85	20.97	20.28	21.35	21.78	20.10	21.23	20.53	21.61	22.04
4H	2H	18.35	19.68	18.75	20.03	20.41	18.70	20.04	19.10	20.39	20.76
	3H	19.97	21.08	20.38	21.48	21.88	20.26	21.37	20.67	21.77	22.17
	4H	20.47	21.47	20.90	21.89	22.32	20.70	21.69	21.13	22.11	22.55
	6H	20.74	21.61	21.20	22.05	22.51	20.90	21.77	21.36	22.21	22.67
	8H	20.78	21.59	21.24	22.04	22.50	20.94	21.75	21.40	22.19	22.66
	12H	20.79	21.52	21.27	21.99	22.46	20.96	21.69	21.44	22.16	22.63
8H	4H	20.64	21.46	21.11	21.90	22.36	20.85	21.66	21.31	22.10	22.57
	6H	20.97	21.64	21.46	22.13	22.60	21.10	21.77	21.60	22.26	22.74
	8H	21.03	21.63	21.54	22.14	22.62	21.16	21.76	21.67	22.27	22.75
	12H	21.06	21.58	21.57	22.08	22.64	21.21	21.74	21.72	22.23	22.79
12H	4H	20.64	21.36	21.12	21.84	22.31	20.85	21.57	21.33	22.05	22.52
	6H	20.96	21.56	21.47	22.07	22.55	21.09	21.69	21.60	22.20	22.69
	8H	21.05	21.58	21.56	22.07	22.63	21.18	21.71	21.69	22.20	22.76