

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: P1499457

Luminaire Tested: MAE-G-4-120-2STD-STD-40

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499457
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-4-120-2STD-STD-40
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

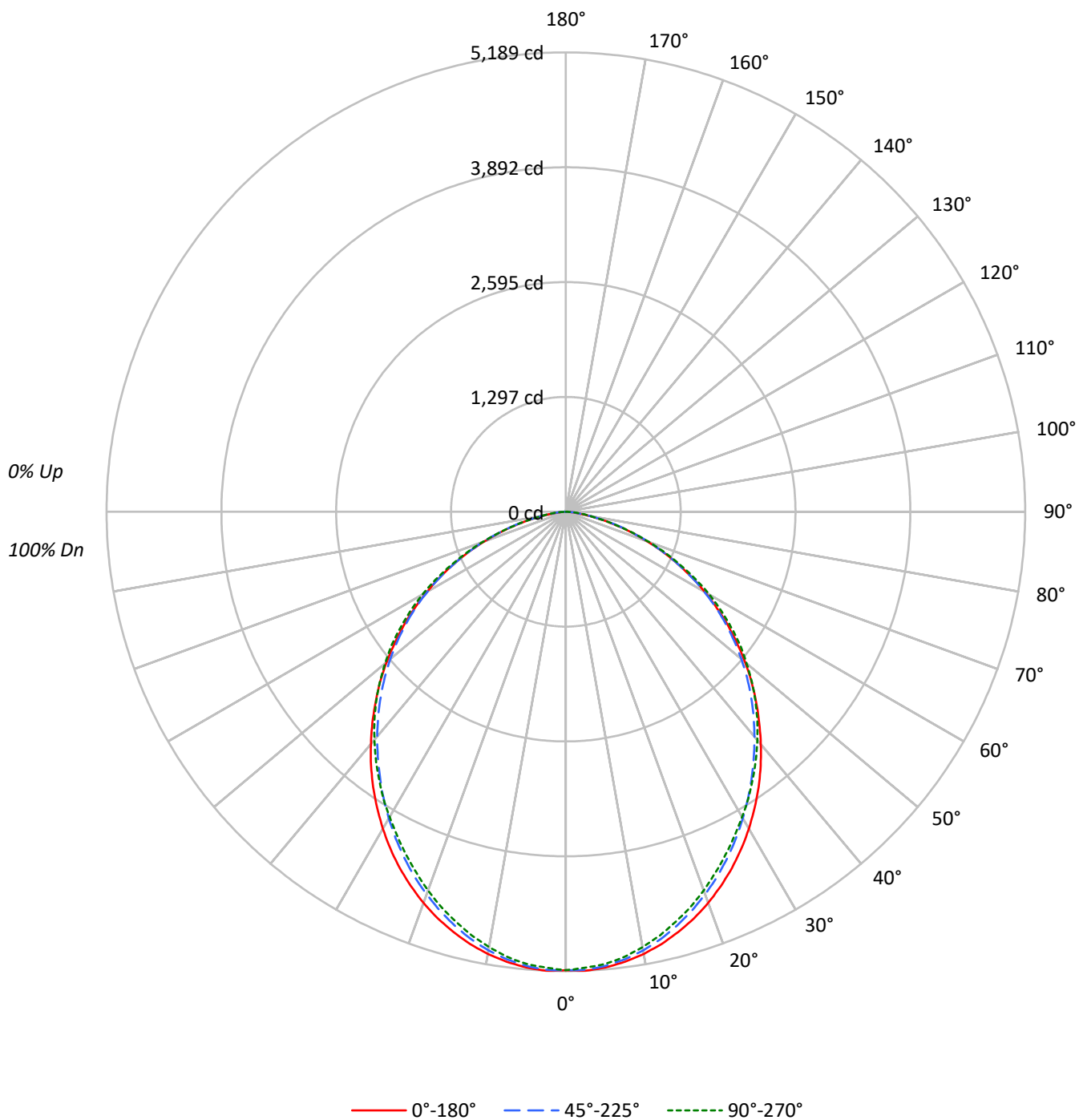
Lumens per Lamp: N/A
Luminaire Lumens: 12605.0 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	92	90	91	89	88	85		
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	61		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	78	65	56	50	75	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	35	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	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6968	6968	6968
5°	6978	6955	6924
10°	6929	6873	6821
15°	6844	6744	6678
20°	6732	6584	6518
25°	6591	6407	6342
30°	6423	6213	6185
35°	6234	6012	6049
40°	6017	5823	5911
45°	5785	5629	5765
50°	5531	5418	5581
55°	5239	5169	5351
60°	4887	4859	5045
65°	4444	4446	4572
70°	3838	3882	3937
75°	3058	3146	3108
80°	2070	2185	2190
85°	1064	1459	1863

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5785 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.0	3.9
10°-20°	1363.9	10.8
20°-30°	1994.2	15.8
30°-40°	2312.9	18.3
40°-50°	2308.9	18.3
50°-60°	1988.9	15.8
60°-70°	1388.0	11.0
70°-80°	641.1	5.1
80°-90°	120.2	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°	3845.1	30.5
0°-40°	6158.0	48.9
0°-60°	10455.7	82.9
0°-90°	12605.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12605.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5179	5179	5179	5179	5179	
5°	5166	5148	5150	5120	5127	490
15°	4913	4879	4841	4791	4794	1385
25°	4439	4389	4316	4266	4272	2043
35°	3795	3730	3660	3658	3683	2372
45°	3040	2983	2958	2998	3030	2345
55°	2233	2189	2203	2257	2281	1994
65°	1396	1375	1396	1421	1436	1381
75°	588	582	605	600	598	633
85°	69	77	94	113	121	102
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5178.6	5178.6	5178.6	5178.6	5178.6
2.5°	5189.0	5172.1	5178.6	5155.9	5154.4
5°	5166.4	5147.6	5149.6	5119.9	5126.6
7.5°	5126.7	5105.0	5099.3	5065.6	5071.8
10°	5071.6	5044.9	5030.4	4989.1	4992.4
12.5°	5001.0	4970.8	4945.4	4897.9	4903.3
15°	4913.1	4879.1	4841.3	4791.4	4794.4
17.5°	4816.3	4779.4	4726.2	4673.2	4681.7
20°	4701.8	4661.3	4598.5	4543.4	4552.5
22.5°	4575.0	4529.0	4463.6	4408.9	4413.7
25°	4439.4	4388.6	4315.5	4265.9	4272.1
27.5°	4292.3	4235.6	4161.1	4116.7	4127.1
30°	4134.1	4074.7	3999.3	3966.4	3981.0
32.5°	3967.5	3906.7	3833.5	3816.2	3838.0
35°	3795.2	3730.3	3660.4	3658.4	3682.6
37.5°	3615.7	3552.0	3489.2	3501.9	3527.1
40°	3425.9	3366.0	3315.1	3337.9	3365.1
42.5°	3234.9	3177.3	3138.7	3172.0	3201.2
45°	3040.0	2982.9	2958.2	2998.5	3029.8
47.5°	2846.3	2788.7	2776.6	2823.1	2851.1
50°	2642.3	2591.0	2588.6	2639.0	2666.4
52.5°	2436.5	2389.0	2397.8	2451.9	2485.6
55°	2233.2	2189.0	2203.4	2257.4	2281.1
57.5°	2024.2	1989.1	2008.0	2056.0	2079.5
60°	1816.2	1783.8	1805.6	1851.5	1874.6
62.5°	1605.8	1577.8	1602.7	1641.2	1656.2
65°	1395.8	1374.8	1396.4	1421.1	1436.1
67.5°	1189.1	1169.3	1192.7	1216.6	1222.1
70°	975.5	963.0	986.7	1000.8	1000.7
72.5°	778.8	766.7	789.2	794.5	790.6
75°	588.2	581.7	605.1	600.0	597.9
77.5°	415.0	418.1	430.2	426.5	425.5
80°	267.2	276.7	282.0	284.7	282.7
82.5°	150.2	158.8	166.9	186.7	194.5
85°	68.9	77.4	94.5	113.0	120.7
87.5°	23.3	29.9	39.7	42.7	40.5
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	17.67	19.25	18.04	19.57	19.88	17.90	19.48	18.26	19.79	20.11
	3H	19.14	20.56	19.51	20.89	21.25	19.36	20.79	19.74	21.11	21.47
	4H	19.56	20.90	19.96	21.25	21.62	19.78	21.12	20.18	21.46	21.84
	6H	19.77	21.01	20.18	21.37	21.76	19.98	21.22	20.40	21.59	21.98
	8H	19.80	20.97	20.22	21.36	21.76	20.03	21.21	20.46	21.60	22.00
	12H	19.79	20.92	20.22	21.30	21.73	20.06	21.19	20.49	21.57	22.00
4H	2H	18.23	19.57	18.63	19.92	20.29	18.41	19.75	18.81	20.10	20.47
	3H	19.87	20.98	20.28	21.38	21.78	20.06	21.18	20.47	21.58	21.98
	4H	20.38	21.38	20.81	21.80	22.24	20.57	21.57	21.00	21.99	22.42
	6H	20.67	21.54	21.12	21.98	22.44	20.86	21.73	21.31	22.17	22.63
	8H	20.71	21.52	21.17	21.97	22.43	20.93	21.74	21.39	22.18	22.65
	12H	20.72	21.45	21.20	21.93	22.40	20.98	21.71	21.46	22.18	22.65
8H	4H	20.57	21.38	21.03	21.83	22.29	20.74	21.56	21.20	22.00	22.47
	6H	20.91	21.58	21.41	22.07	22.55	21.09	21.76	21.58	22.25	22.73
	8H	20.98	21.58	21.49	22.09	22.58	21.19	21.79	21.70	22.30	22.79
	12H	21.02	21.55	21.53	22.04	22.60	21.28	21.81	21.79	22.30	22.87
12H	4H	20.57	21.30	21.05	21.77	22.25	20.74	21.47	21.22	21.94	22.42
	6H	20.91	21.51	21.42	22.02	22.51	21.08	21.69	21.60	22.20	22.68
	8H	21.02	21.55	21.53	22.04	22.60	21.22	21.75	21.73	22.25	22.81