

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: P1499127

Luminaire Tested: MAE-G-4-120-1STD-HI-50

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1STD-HI-50
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

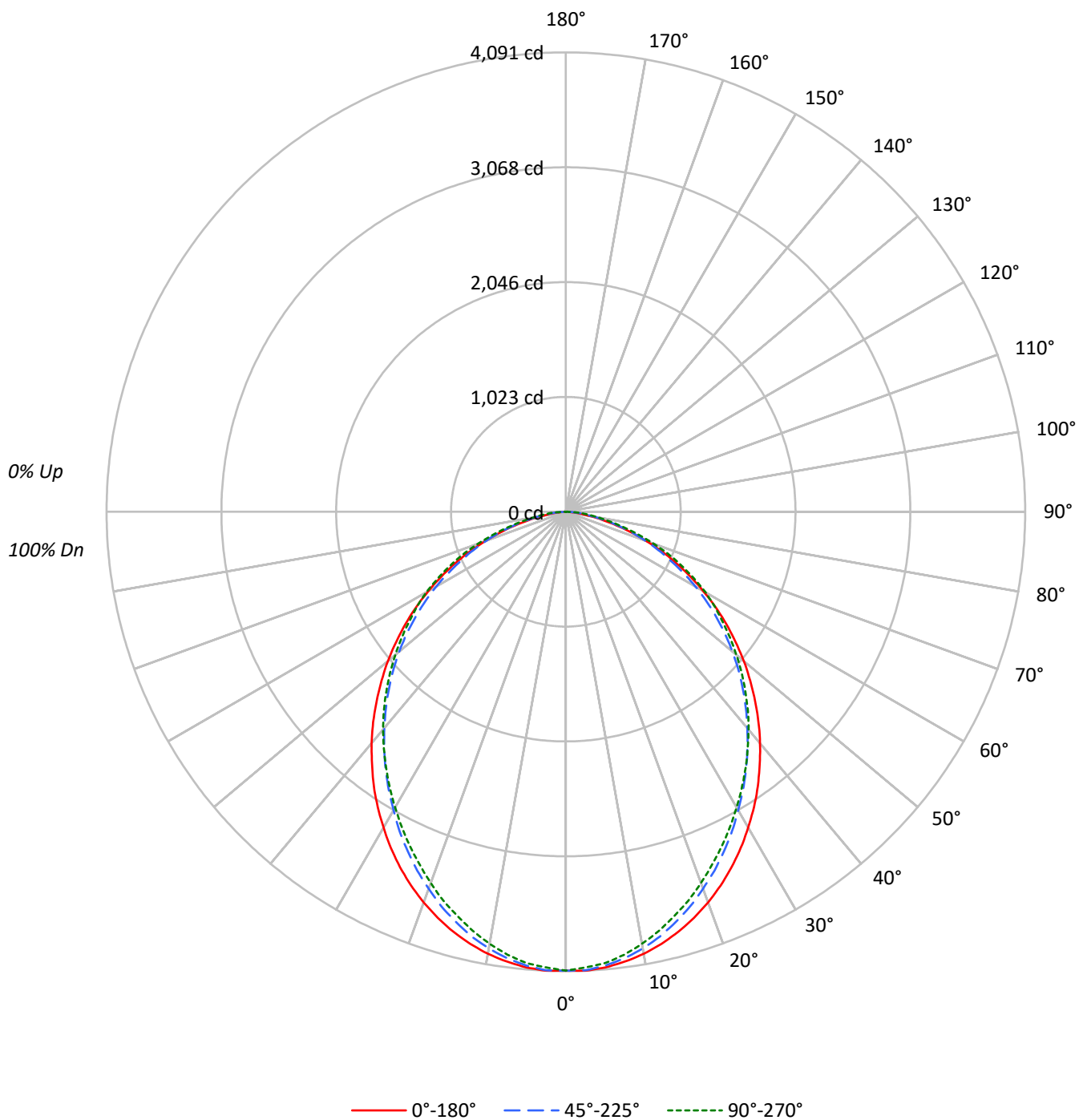
Lumens per Lamp: N/A
Luminaire Lumens: 9735.0 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 123
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	109	105	101	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	60	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	45	39	51	44	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5498	5498	5498
5°	5500	5478	5449
10°	5461	5396	5338
15°	5394	5270	5194
20°	5301	5115	5038
25°	5185	4951	4879
30°	5047	4769	4724
35°	4898	4596	4582
40°	4727	4417	4447
45°	4536	4240	4301
50°	4332	4053	4149
55°	4095	3837	3994
60°	3805	3589	3864
65°	3467	3277	3622
70°	3012	2963	3274
75°	2410	2555	2760
80°	1673	2019	2257
85°	937	1570	2073

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4536 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.4	3.9
10°-20°	1066.9	11.0
20°-30°	1546.7	15.9
30°-40°	1776.5	18.2
40°-50°	1755.1	18.0
50°-60°	1500.8	15.4
60°-70°	1062.1	10.9
70°-80°	525.4	5.4
80°-90°	118.1	1.2
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°	2997.0	30.8
0°-40°	4773.5	49.0
0°-60°	8029.4	82.5
0°-90°	9735.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9735.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4086	4086	4086	4086	4086	
5°	4072	4069	4056	4025	4034	386
15°	3872	3848	3783	3725	3728	1091
25°	3493	3436	3335	3281	3286	1608
35°	2982	2903	2798	2775	2789	1863
45°	2384	2309	2228	2242	2260	1839
55°	1746	1677	1636	1671	1702	1558
65°	1089	1035	1029	1104	1138	1077
75°	464	440	492	527	531	500
85°	61	75	102	125	134	86
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4086.3	4086.3	4086.3	4086.3	4086.3
2.5°	4090.9	4094.6	4086.3	4054.5	4060.8
5°	4072.5	4069.2	4056.0	4024.9	4034.2
7.5°	4040.2	4034.1	4010.3	3972.9	3978.9
10°	3997.4	3985.2	3949.4	3902.5	3906.9
12.5°	3941.7	3925.0	3874.2	3820.0	3824.2
15°	3872.2	3848.4	3783.0	3724.6	3728.5
17.5°	3792.6	3764.4	3684.7	3621.2	3630.8
20°	3702.3	3664.7	3572.6	3511.1	3518.4
22.5°	3602.6	3555.6	3458.2	3397.6	3402.2
25°	3492.7	3436.1	3334.7	3280.6	3286.3
27.5°	3374.6	3312.0	3206.4	3155.9	3165.9
30°	3248.4	3180.5	3069.3	3029.9	3040.9
32.5°	3118.5	3046.1	2935.6	2905.3	2916.3
35°	2981.9	2903.1	2798.3	2774.9	2789.3
37.5°	2835.9	2759.5	2655.3	2648.1	2661.1
40°	2691.0	2612.0	2514.9	2515.4	2532.1
42.5°	2540.2	2463.4	2373.3	2379.8	2399.4
45°	2383.6	2309.2	2228.4	2241.8	2260.3
47.5°	2225.9	2152.6	2083.7	2101.7	2124.7
50°	2069.5	1998.4	1936.3	1961.3	1982.0
52.5°	1904.5	1837.1	1788.3	1815.7	1844.4
55°	1745.6	1677.1	1635.6	1671.0	1702.5
57.5°	1580.9	1522.9	1486.2	1531.6	1572.2
60°	1414.0	1357.2	1333.8	1395.7	1435.8
62.5°	1250.2	1194.8	1179.2	1255.7	1286.6
65°	1089.0	1034.9	1029.2	1104.5	1137.7
67.5°	928.5	879.5	892.1	967.4	990.6
70°	765.7	721.7	753.2	818.7	832.3
72.5°	612.3	575.7	622.3	671.6	677.1
75°	463.5	440.1	491.5	527.1	530.9
77.5°	332.1	319.9	369.1	396.1	401.0
80°	215.9	220.5	260.6	282.8	291.3
82.5°	126.1	138.0	169.9	200.1	208.8
85°	60.7	75.0	101.7	124.6	134.3
87.5°	20.9	30.4	42.7	47.4	46.1
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	16.74	18.32	17.10	18.63	18.95	16.77	18.36	17.14	18.67	18.98
	3H	18.20	19.62	18.57	19.95	20.31	18.46	19.88	18.83	20.21	20.57
	4H	18.63	19.97	19.03	20.32	20.69	18.99	20.33	19.39	20.68	21.06
	6H	18.85	20.09	19.26	20.46	20.85	19.33	20.57	19.74	20.93	21.32
	8H	18.89	20.07	19.32	20.46	20.86	19.43	20.61	19.86	21.00	21.40
	12H	18.90	20.03	19.33	20.41	20.84	19.51	20.64	19.94	21.02	21.45
4H	2H	17.24	18.58	17.64	18.93	19.30	17.27	18.61	17.67	18.96	19.33
	3H	18.89	20.00	19.30	20.40	20.80	19.16	20.28	19.57	20.67	21.08
	4H	19.41	20.41	19.84	20.83	21.26	19.82	20.82	20.25	21.24	21.67
	6H	19.71	20.59	20.17	21.03	21.49	20.26	21.14	20.72	21.58	22.03
	8H	19.77	20.59	20.23	21.03	21.50	20.40	21.22	20.86	21.66	22.13
	12H	19.80	20.53	20.28	21.00	21.47	20.51	21.25	21.00	21.72	22.19
8H	4H	19.64	20.45	20.10	20.90	21.36	20.01	20.82	20.47	21.27	21.73
	6H	20.01	20.69	20.51	21.18	21.66	20.54	21.22	21.03	21.70	22.18
	8H	20.10	20.71	20.62	21.22	21.71	20.74	21.35	21.25	21.85	22.34
	12H	20.16	20.70	20.67	21.19	21.75	20.92	21.45	21.43	21.94	22.51
12H	4H	19.65	20.38	20.13	20.86	21.33	20.01	20.74	20.49	21.22	21.69
	6H	20.04	20.65	20.55	21.15	21.64	20.55	21.15	21.06	21.66	22.15
	8H	20.17	20.71	20.68	21.20	21.76	20.79	21.33	21.30	21.82	22.38