

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: P1499148

Luminaire Tested: MAE-G-4-120-1STD-LO-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499148
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-LO-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

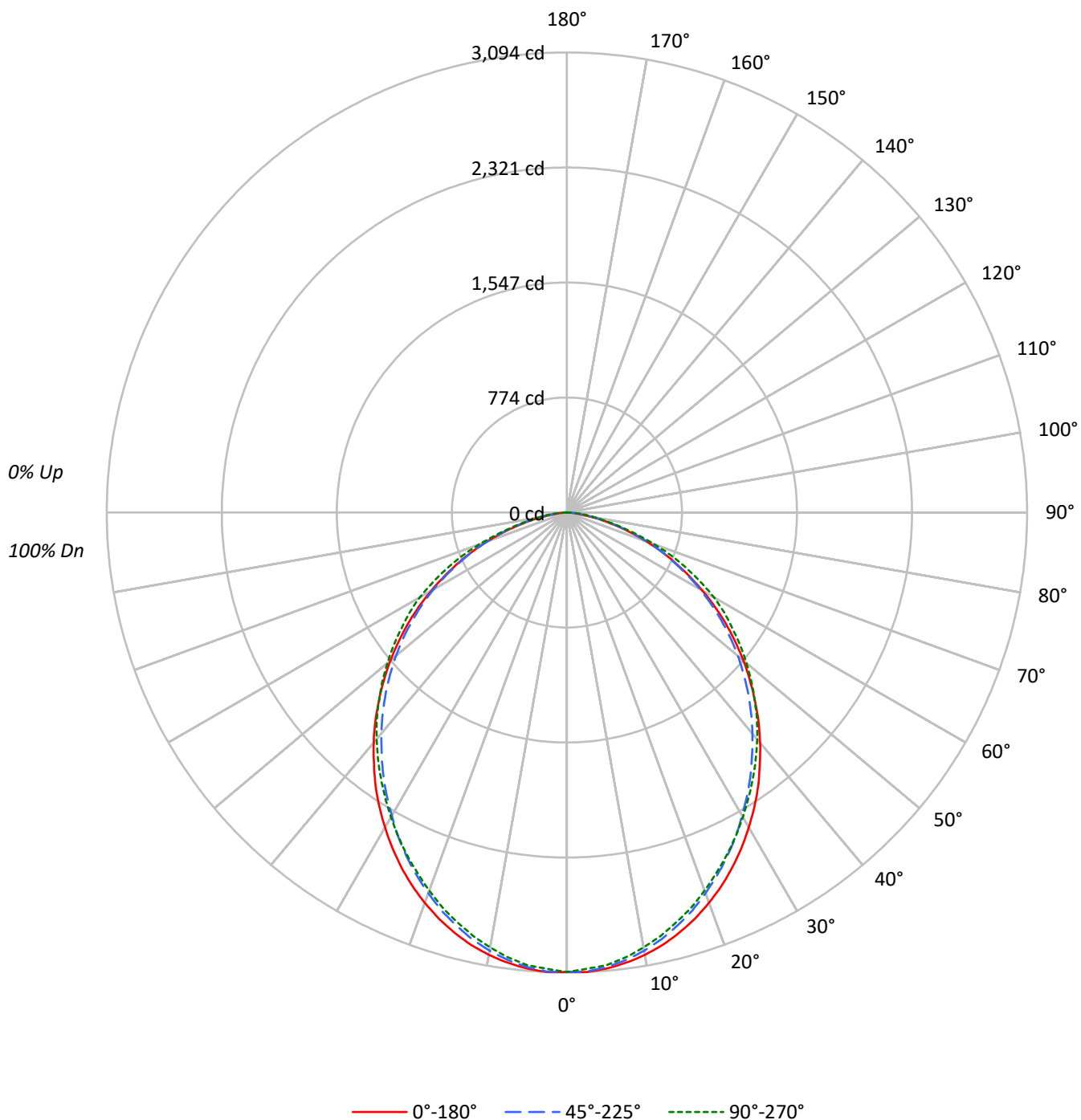
Lumens per Lamp: N/A
Luminaire Lumens: 7443.0 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 82.3
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	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	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	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	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4158	4158	4158
5°	4159	4144	4127
10°	4128	4089	4058
15°	4074	4005	3972
20°	4000	3901	3875
25°	3909	3787	3774
30°	3800	3659	3675
35°	3684	3537	3582
40°	3550	3408	3496
45°	3401	3279	3398
50°	3243	3141	3297
55°	3060	2976	3184
60°	2834	2787	3075
65°	2574	2533	2826
70°	2229	2257	2467
75°	1773	1884	1946
80°	1220	1404	1468
85°	678	1036	1315

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3401 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.3	3.9
10°-20°	811.2	10.9
20°-30°	1182.0	15.9
30°-40°	1364.1	18.3
40°-50°	1353.7	18.2
50°-60°	1161.3	15.6
60°-70°	815.1	11.0
70°-80°	385.5	5.2
80°-90°	79.8	1.1
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°	2283.4	30.7
0°-40°	3647.5	49.0
0°-60°	6162.6	82.8
0°-90°	7443.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7443.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3090	3090	3090	3090	3090	
5°	3079	3076	3068	3049	3056	292
15°	2925	2911	2875	2846	2851	824
25°	2633	2602	2551	2531	2542	1212
35°	2243	2200	2153	2160	2181	1401
45°	1787	1751	1723	1760	1786	1379
55°	1304	1271	1269	1322	1357	1165
65°	809	783	796	860	888	800
75°	341	330	362	378	374	369
85°	44	53	67	80	85	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3090.0	3090.0	3090.0	3090.0	3090.0
2.5°	3093.7	3095.9	3090.0	3068.1	3071.0
5°	3079.0	3076.2	3068.1	3049.2	3055.7
7.5°	3054.1	3050.4	3036.0	3014.1	3018.6
10°	3021.2	3013.8	2992.8	2966.0	2970.4
12.5°	2978.6	2969.3	2940.1	2910.6	2915.7
15°	2925.0	2911.4	2875.0	2845.5	2851.4
17.5°	2863.5	2849.0	2805.6	2774.0	2785.0
20°	2793.8	2773.5	2724.4	2695.7	2706.2
22.5°	2717.6	2691.5	2641.0	2614.4	2624.2
25°	2633.3	2601.5	2551.0	2531.0	2542.4
27.5°	2542.4	2507.7	2457.3	2440.4	2456.0
30°	2445.6	2408.6	2354.8	2348.1	2365.2
32.5°	2346.6	2307.7	2255.1	2256.6	2273.8
35°	2242.6	2199.9	2153.4	2160.0	2180.8
37.5°	2131.2	2090.8	2045.5	2066.3	2086.4
40°	2021.3	1979.3	1940.2	1967.3	1990.5
42.5°	1907.0	1867.2	1833.1	1864.8	1891.5
45°	1787.4	1750.8	1723.2	1760.0	1786.0
47.5°	1668.0	1631.1	1612.6	1653.0	1682.7
50°	1549.3	1514.7	1500.4	1545.9	1575.0
52.5°	1425.5	1392.3	1386.8	1433.9	1468.7
55°	1304.5	1270.6	1268.8	1321.5	1357.2
57.5°	1180.0	1154.2	1153.5	1211.5	1254.4
60°	1053.2	1027.3	1035.6	1103.6	1142.8
62.5°	930.1	904.2	913.8	989.0	1014.7
65°	808.6	782.6	795.6	859.6	887.6
67.5°	689.2	664.6	686.9	744.9	762.5
70°	566.7	545.1	573.8	620.6	627.1
72.5°	452.5	433.7	468.1	497.2	496.3
75°	341.1	330.3	362.5	378.1	374.3
77.5°	243.8	238.1	265.4	273.2	270.1
80°	157.5	161.1	181.2	186.1	189.4
82.5°	91.5	98.8	113.9	130.5	134.0
85°	43.9	52.6	67.1	80.2	85.2
87.5°	15.3	21.1	27.7	30.6	29.8
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	15.72	17.31	16.09	17.62	17.93	16.09	17.67	16.45	17.98	18.30
	3H	17.16	18.58	17.54	18.91	19.27	17.67	19.10	18.05	19.42	19.79
	4H	17.58	18.92	17.98	19.26	19.64	18.13	19.46	18.53	19.81	20.19
	6H	17.79	19.03	18.20	19.39	19.79	18.37	19.60	18.78	19.97	20.36
	8H	17.82	19.00	18.25	19.39	19.79	18.43	19.61	18.86	20.00	20.40
	12H	17.83	18.96	18.26	19.34	19.77	18.48	19.61	18.91	19.99	20.42
4H	2H	16.26	17.59	16.66	17.94	18.32	16.56	17.89	16.95	18.24	18.62
	3H	17.88	18.99	18.29	19.39	19.79	18.34	19.46	18.75	19.85	20.25
	4H	18.38	19.38	18.81	19.80	20.23	18.90	19.90	19.33	20.32	20.75
	6H	18.67	19.54	19.13	19.98	20.44	19.23	20.11	19.69	20.55	21.01
	8H	18.72	19.54	19.18	19.98	20.45	19.33	20.14	19.79	20.59	21.05
	12H	18.74	19.47	19.22	19.95	20.42	19.41	20.13	19.89	20.61	21.08
8H	4H	18.59	19.41	19.06	19.85	20.32	19.07	19.88	19.53	20.33	20.79
	6H	18.95	19.62	19.44	20.11	20.59	19.47	20.14	19.97	20.63	21.11
	8H	19.03	19.63	19.54	20.14	20.63	19.61	20.22	20.12	20.72	21.21
	12H	19.08	19.61	19.59	20.10	20.66	19.74	20.27	20.25	20.76	21.33
12H	4H	18.60	19.33	19.08	19.81	20.28	19.06	19.79	19.55	20.27	20.74
	6H	18.96	19.56	19.47	20.07	20.56	19.47	20.08	19.98	20.58	21.07
	8H	19.08	19.61	19.59	20.11	20.67	19.65	20.19	20.16	20.68	21.24

END OF REPORT